

CHAPTER

26

FIRE PROTECTION



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3	Feb 15/2015		403	Oct 15/2015		26-10-01		
4	Feb 15/2016		404	Oct 15/2014		401	Oct 15/2014	
O 5	Jun 15/2016		405	Feb 15/2016		402	Oct 15/2015	
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9	Feb 15/2015		409	Oct 15/2014		201	Feb 15/2015	
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14	BLANK		403	Oct 15/2015		501	Jun 15/2015	
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913	Oct 15/2014		O 510	Jun 15/2016		515	Feb 15/2016	
914	Oct 15/2014		O 511	Jun 15/2016		516	BLANK	
915	Oct 15/2014		512	Oct 15/2015	26-11-01			
916	Oct 15/2014		513	Oct 15/2015		401	Jun 15/2015	
917	Oct 15/2014		514	Oct 15/2015		402	Oct 15/2014	
918	Oct 15/2014		515	Oct 15/2015		403	Oct 15/2015	
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406	Oct 15/2015	R 424	Jun 15/2016	815		815	Feb 15/2015	
407	Oct 15/2015	R 425	Jun 15/2016	816		816	Feb 15/2016	
408	Oct 15/2015	R 426	Jun 15/2016	817		817	Feb 15/2016	
R 409	Jun 15/2016	R 427	Jun 15/2016	818		818	Feb 15/2015	
O 410	Jun 15/2016	R 428	Jun 15/2016	819		819	Oct 15/2015	
411	Jun 15/2015	R 429	Jun 15/2016	820		820	Oct 15/2015	
R 412	Jun 15/2016	R 430	Jun 15/2016	821		821	Oct 15/2015	
O 413	Jun 15/2016	R 431	Jun 15/2016	822		822	Oct 15/2015	
414	BLANK	R 432	Jun 15/2016	823		823	Oct 15/2015	
26-11-01		R 433	Jun 15/2016	824		824	BLANK	
601	Oct 15/2014	R 434	Jun 15/2016	26-14-00				
602	BLANK	R 435	Jun 15/2016	501		501	Oct 15/2015	
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401	Oct 15/2014	R 437	Jun 15/2016	503		503	Oct 15/2015	
402	Oct 15/2014	R 438	Jun 15/2016	504		504	Oct 15/2015	
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408	Oct 15/2015	A 444	BLANK	26-14-01				
R 409	Jun 15/2016	26-11-02		R 701		R 701	Jun 15/2016	
R 410	Jun 15/2016	801	Feb 15/2015	702		702	Oct 15/2015	
O 411	Jun 15/2016	802	Feb 15/2015	703		703	Oct 15/2015	
412	Oct 15/2015	803	Feb 15/2015	704		704	BLANK	
413	Oct 15/2015	804	Feb 15/2015	26-15-00				
414	Oct 15/2015	805	Feb 15/2015	201		201	Feb 15/2015	
415	Oct 15/2015	806	Feb 15/2015	202		202	Feb 15/2015	
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419	Oct 15/2015	810	Oct 15/2015	206		206	BLANK	
420	Oct 15/2015	811	Oct 15/2015	26-15-00				
421	Oct 15/2015	812	Oct 15/2015	501		501	Jun 15/2015	
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504	Oct 15/2014		402	Oct 15/2014		26-18-00		
505	Oct 15/2015		26-16-00			201	Feb 15/2015	
506	Oct 15/2015		201	Feb 15/2015		202	Feb 15/2015	
R 507	Jun 15/2016		202	Oct 15/2015		203	Oct 15/2015	
508	Feb 15/2015		203	Feb 15/2015		204	Feb 15/2015	
509	Feb 15/2015		204	BLANK		26-18-00		
510	Oct 15/2015		26-16-00			501	Jun 15/2015	
R 511	Jun 15/2016		501	Feb 15/2016		502	Oct 15/2014	
512	Jun 15/2015		502	Feb 15/2016		503	Feb 15/2016	
513	Feb 15/2015		503	Feb 15/2016		504	Oct 15/2015	
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515	Oct 15/2015		505	Feb 15/2016		506	Oct 15/2015	
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517	Oct 15/2015		507	Feb 15/2016		401	Oct 15/2014	
518	BLANK		508	Feb 15/2016		402	Oct 15/2015	
26-15-01			509	Feb 15/2016		403	Oct 15/2015	
401	Oct 15/2014		510	BLANK		404	Oct 15/2014	
402	Oct 15/2014		26-16-01			405	Oct 15/2014	
403	Oct 15/2015		401	Oct 15/2014		406	BLANK	
404	Oct 15/2015		402	Oct 15/2015		26-18-02		
405	Oct 15/2015		403	Oct 15/2015		401	Oct 15/2014	
406	Oct 15/2015		404	Oct 15/2015		402	Oct 15/2014	
R 407	Jun 15/2016		405	Oct 15/2014		403	Oct 15/2014	
408	Feb 15/2015		406	Oct 15/2014		404	Oct 15/2014	
409	Feb 15/2015		26-16-01			405	Oct 15/2014	
410	Feb 15/2015		701	Jun 15/2015		406	Oct 15/2014	
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412	Feb 15/2015		703	Oct 15/2014		408	Oct 15/2015	
413	Feb 15/2015		704	BLANK		409	Oct 15/2015	
414	BLANK		26-16-02			410	Oct 15/2015	
26-15-01			401	Oct 15/2014		411	Oct 15/2015	
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602	BLANK		403	Oct 15/2015		413	Oct 15/2015	
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418	Oct 15/2015		506	Feb 15/2015		603	Oct 15/2015	
419	Feb 15/2016		507	Oct 15/2015		604	Oct 15/2015	
420	Feb 15/2015		508	Oct 15/2015		605	Oct 15/2015	
421	Feb 15/2015		509	Feb 15/2015		606	Oct 15/2015	
422	Feb 15/2015		510	Oct 15/2015		26-21-02		
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26-18-02		O	513	Jun 15/2016		403	Oct 15/2015	
R 501	Jun 15/2016	R	514	Jun 15/2016		404	Oct 15/2015	
R 502	Jun 15/2016		515	Oct 15/2015	R	405	Jun 15/2016	
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504	Feb 15/2016		517	Oct 15/2015		407	Jun 15/2015	
505	Feb 15/2016		518	Oct 15/2015		408	BLANK	
R 506	Jun 15/2016		519	Oct 15/2015	26-22-00			
26-20-00			520	Oct 15/2014		201	Feb 15/2015	
601	Feb 15/2015		521	Oct 15/2014		202	Feb 15/2015	
602	Oct 15/2015		522	Jun 15/2015		203	Oct 15/2015	
603	Oct 15/2015		523	Oct 15/2015		204	Feb 15/2015	
604	Oct 15/2015		524	Oct 15/2015	26-22-00			
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606	Jun 15/2015		526	Oct 15/2015		502	Jun 15/2015	
607	Oct 15/2015	26-21-01				503	Feb 15/2015	
608	Oct 15/2015		401	Feb 15/2015		504	Feb 15/2015	
26-21-00			402	Feb 15/2015		505	Feb 15/2015	
201	Feb 15/2015		403	Oct 15/2015		506	Jun 15/2015	
202	Feb 15/2015		404	Oct 15/2015		507	Feb 15/2015	
203	Oct 15/2015		405	Oct 15/2015		508	Oct 15/2015	
204	Feb 15/2015	R	406	Jun 15/2016		509	Oct 15/2015	
205	Feb 15/2015	R	407	Jun 15/2016		510	Jun 15/2015	
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403	Oct 15/2015		203	Feb 15/2015		R 703	Jun 15/2016	
R 404	Jun 15/2016		204	BLANK		704	Oct 15/2015	
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R 407	Jun 15/2016		502	Feb 15/2015		402	Feb 15/2015	
O 408	Jun 15/2016		503	Oct 15/2015		403	Oct 15/2015	
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A 410	BLANK		505	Oct 15/2015		405	Oct 15/2015	
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601	Feb 15/2015		507	Oct 15/2015		407	Feb 15/2015	
602	BLANK		508	Feb 15/2016		408	Jun 15/2015	
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401	Feb 15/2015		R 510	Jun 15/2016		401	Feb 15/2015	
402	Oct 15/2014		R 511	Jun 15/2016		402	Oct 15/2014	
403	Oct 15/2015		O 512	Jun 15/2016		403	Oct 15/2015	
R 404	Jun 15/2016		R 513	Jun 15/2016		404	Feb 15/2015	
405	Feb 15/2016		R 514	Jun 15/2016		405	Oct 15/2014	
406	Feb 15/2016		26-23-01			406	BLANK	
26-22-03			401	Oct 15/2015		26-24-01		
401	Oct 15/2014		402	Oct 15/2015		201	Feb 15/2015	
402	Oct 15/2015		403	Oct 15/2015		202	Feb 15/2015	
403	Oct 15/2015		404	Oct 15/2015		203	Oct 15/2015	
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406	Oct 15/2014		407	Oct 15/2015		601	Feb 15/2015	
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602	Oct 15/2015		R 410	Jun 15/2016		401	Oct 15/2015	
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604	Oct 15/2015		O 412	Jun 15/2016		403	Feb 15/2016	
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606	BLANK		O 414	Jun 15/2016		26-26-01		
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403	Oct 15/2015							
404	BLANK							
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MMEL 26-3 (DDPG) Restoration - Portable Fire Extinguishers Inoperative			902			AKS ALL
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MMEL 26-4 (DDPG) Preparation - Wheel Well Fire Detection System Inoperative			902			AKS ALL
TASK 26-00-00-040-802						
MMEL 26-4 (DDPG) Restoration - Wheel Well Fire Detection System Inoperative			904			AKS ALL
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MMEL 26-9 (DDPG) Preparation - Engine/APU Fire Extinguisher Test System (EXT TEST) (Squib Test) Inoperative			905			AKS ALL
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MMEL 26-9 (DDPG) Restoration - Engine/APU Fire Extinguisher Test System (EXT TEST) (Squib Test) Inoperative			906			AKS ALL
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MMEL 26-15 (DDPG) Preparation - Lavatory Fire Extinguisher System Inoperative			907			AKS ALL
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MMEL 26-16 (DDPG) Preparation - Lavatory Smoke Detector System Inoperative			908			AKS ALL
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MMEL 26-18 (DDPG) Restoration - Wing/Body Overheat Test System Inoperative TASK 26-00-00-440-805				910	AKS ALL
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MMEL 26-19a (DDPG) Restoration - Lower Cargo Compartment Extinguisher Bottle No. 2 Inoperative TASK 26-00-00-440-806				913	AKS ALL
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Core Fire Detection Wire Harness Terminal Lugs Replacement (Engines POST CFM SB 72-0258 or SB 72-0269) TASK 26-11-02-960-802					814	AKS ALL POST SB 737-CFM56-7B-72-0258
LAVATORY SMOKE DETECTION - ADJUSTMENT/TEST	26-14-00				501	AKS ALL
Lavatory Smoke Detection - Self Test TASK 26-14-00-710-802					501	AKS ALL; AIRPLANES WITH KIDDE PHOTOELECTRIC DETECTORS
Lavatory Smoke Detection - Smoke Test TASK 26-14-00-730-801					502	AKS ALL
LAVATORY SMOKE DETECTOR - REMOVAL/INSTALLATION	26-14-01				401	AKS ALL
Lavatory Smoke Detector Removal (Kidde) TASK 26-14-01-000-802					401	AKS ALL
Lavatory Smoke Detector Installation (Kidde) TASK 26-14-01-400-802					403	AKS ALL
LAVATORY SMOKE DETECTOR - CLEANING/PAINTING	26-14-01				701	AKS ALL
Lavatory Smoke Detector Cleaning TASK 26-14-01-100-802					701	AKS ALL; AIRPLANES WITH KIDDE PHOTOELECTRIC DETECTORS

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<u>APU FIRE DETECTION - MAINTENANCE PRACTICES</u>	26-15-00		APU Fire Detection - Deactivation TASK 26-15-00-040-801		201	AKS ALL
			APU Fire Detection - Activation TASK 26-15-00-440-801		205	AKS ALL
<u>APU FIRE DETECTION - ADJUSTMENT/TEST</u>	26-15-00		APU Fire Detection - Operational Test TASK 26-15-00-710-801		501	AKS ALL
			APU Fire Detection Loop Resistance - System Test TASK 26-15-00-730-801		507	AKS ALL
			APU Fire Detection Circuit - System Test TASK 26-15-00-730-802		511	AKS ALL
<u>APU OVERHEAT DETECTORS - REMOVAL/INSTALLATION</u>	26-15-01		APU Overheat Detector Element Removal TASK 26-15-01-000-801		401	AKS ALL
			APU Overheat Detector Element Installation TASK 26-15-01-400-801		407	AKS ALL
			APU Overheat Detector Assembly Removal TASK 26-15-01-000-802		409	AKS ALL
			APU Overheat Detector Assembly Installation TASK 26-15-01-400-802		411	AKS ALL
<u>APU FIRE DETECTORS - INSPECTION/CHECK</u>	26-15-01		APU Fire Detectors Inspection TASK 26-15-01-210-801		601	AKS ALL
<u>APU FIRE WARNING HORN - REMOVAL/INSTALLATION</u>	26-15-02		APU Fire Warning Horn Removal TASK 26-15-02-000-801		401	AKS ALL
			APU Fire Warning Horn Installation TASK 26-15-02-400-801		401	AKS ALL

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CARGO BAY SMOKE DETECTION - MAINTENANCE PRACTICES	26-16-00				201	AKS ALL
Cargo Bay Smoke Detection - Deactivation TASK 26-16-00-040-801					201	AKS ALL
Cargo Bay Smoke Detection - Activation TASK 26-16-00-440-801					203	AKS ALL
CARGO BAY SMOKE DETECTION - ADJUSTMENT/TEST	26-16-00				501	AKS ALL
Cargo Bay Smoke Detection - Operational Test TASK 26-16-00-710-801					501	AKS ALL
Cargo Bay Smoke Detection - Smoke Test TASK 26-16-00-730-801					507	AKS ALL
CARGO BAY SMOKE DETECTOR - REMOVAL/INSTALLATION	26-16-01				401	AKS ALL
Cargo Bay Smoke Detector Removal TASK 26-16-01-000-801					401	AKS ALL
Cargo Bay Smoke Detector Installation TASK 26-16-01-400-801					405	AKS ALL
CARGO BAY SMOKE DETECTOR - CLEANING/PAINTING	26-16-01				701	AKS ALL
Clean the Cargo Bay Smoke Detectors TASK 26-16-01-100-801					701	AKS ALL
CARGO ELECTRONIC UNIT - REMOVAL/INSTALLATION	26-16-02				401	AKS ALL
Cargo Electronic Unit Removal TASK 26-16-02-000-801					401	AKS ALL
Cargo Electronic Unit Installation TASK 26-16-02-400-801					405	AKS ALL
Cargo Electronic Unit Installation Test TASK 26-16-02-710-801					406	AKS ALL

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<u>WHEEL WELL, WING AND LOWER AFT BODY</u>	26-18-00			201	AKS ALL
<u>OVERHEAT DETECTION SYSTEM -</u>					
<u>MAINTENANCE PRACTICES</u>					
Wheel Well, Wing and Lower Aft Body Overheat Detection System - Deactivation				201	AKS ALL
TASK 26-18-00-040-801					
Wheel Well, Wing and Lower Aft Body Overheat Detection System - Activation				204	AKS ALL
TASK 26-18-00-440-801					
<u>WHEEL WELL, WING AND LOWER AFT BODY</u>	26-18-00			501	AKS ALL
<u>OVERHEAT DETECTION SYSTEM -</u>					
<u>ADJUSTMENT/TEST</u>					
Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test				501	AKS ALL
TASK 26-18-00-710-801					
<u>COMPARTMENT OVERHEAT DETECTION</u>	26-18-01			401	AKS ALL
<u>CONTROL UNIT, M237 -</u>					
<u>REMOVAL/INSTALLATION</u>					
Compartment Overheat Detection Control Unit Removal				401	AKS ALL
TASK 26-18-01-000-801					
Compartment Overheat Detection Control Unit Installation				404	AKS ALL
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<u>WING, WHEEL WELL, AND LOWER AFT BODY</u>	26-18-02			401	AKS ALL
<u>OVERHEAT DETECTION SENSING ELEMENT -</u>					
<u>REMOVAL/INSTALLATION</u>					
Wheel Well, Wing and Lower Aft Body Overheat Sensor Element Removal				401	AKS ALL
TASK 26-18-02-000-801					
Wheel Well, Wing and Lower Aft Body Overheat Sensor Element Installation				419	AKS ALL
TASK 26-18-02-400-801					

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<u>OVERHEAT DETECTION SENSING ELEMENT -</u>						
<u>ADJUSTMENT/TEST</u>						
Wing, Wheel Well and Lower Aft Body Overheat Sensing Element Test					501	AKS ALL
TASK 26-18-02-720-803						
<u>FIRE EXTINGUISHING BOTTLE PRESSURE GAUGE</u>	26-20-00				601	AKS ALL
<u>- INSPECTION/CHECK</u>						
Engine Fire Extinguishing Bottle Check					601	AKS ALL
TASK 26-20-00-210-802						
APU Fire Extinguishing Bottle Check					605	AKS ALL
TASK 26-20-00-210-801						
<u>ENGINE FIRE EXTINGUISHING - MAINTENANCE</u>	26-21-00				201	AKS ALL
<u>PRACTICES</u>						
Engine Fire Extinguishing System - Deactivation					201	AKS ALL
TASK 26-21-00-040-801						
Engine Fire Extinguishing System - Activation					204	AKS ALL
TASK 26-21-00-440-801						
<u>ENGINE FIRE EXTINGUISHING -</u>	26-21-00				501	AKS ALL
<u>ADJUSTMENT/TEST</u>						
Engine Fire Extinguishing Bottle Squib Circuit Test					501	AKS ALL
TASK 26-21-00-730-801						
Engine Fire Extinguishing Bottle Pressure Switch Circuit Test					509	AKS ALL
TASK 26-21-00-730-802						
Engine Fire Extinguishing Discharge Line Flow Test					509	AKS ALL
TASK 26-21-00-720-801						
Engine Fire Extinguishing Discharge Line Pressure Test					511	AKS ALL
TASK 26-21-00-730-803						
Engine Fire Switch System Shutdown Test					519	AKS ALL
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Engine Fire Extinguishing Bottle Installation TASK 26-21-01-400-801				406	AKS ALL
<u>ENGINE FIRE EXTINGUISHING SYSTEM - INSPECTION/CHECK</u>	26-21-01			601	AKS ALL
Engine Fire Extinguishing System Inspection TASK 26-21-01-210-801				601	AKS ALL
<u>ENGINE FIRE EXTINGUISHER BOTTLE SQUIB - REMOVAL/INSTALLATION</u>	26-21-02			401	AKS ALL
Engine Fire Extinguisher Bottle Squib Removal TASK 26-21-02-000-801				401	AKS ALL
Engine Fire Extinguisher Bottle Squib Installation TASK 26-21-02-400-801				405	AKS ALL
<u>APU FIRE EXTINGUISHING - MAINTENANCE PRACTICES</u>	26-22-00			201	AKS ALL
APU Fire Extinguishing System - Deactivation TASK 26-22-00-040-801				201	AKS ALL
APU Fire Extinguishing System - Activation TASK 26-22-00-440-801				204	AKS ALL
<u>APU FIRE EXTINGUISHING - ADJUSTMENT/TEST</u>	26-22-00			501	AKS ALL
APU Fire Extinguishing Bottle Squib Circuit Test TASK 26-22-00-730-801				501	AKS ALL
APU Fire Extinguishing Bottle Pressure Switch Circuit Test TASK 26-22-00-730-802				510	AKS ALL
APU Fire Switch System Shutdown Test TASK 26-22-00-720-801				510	AKS ALL
<u>APU FIRE EXTINGUISHING BOTTLE - REMOVAL/INSTALLATION</u>	26-22-01			401	AKS ALL
APU Fire Extinguishing Bottle Removal TASK 26-22-01-000-801				401	AKS ALL

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<u>APU FIRE BOTTLE - INSPECTION/CHECK</u>	26-22-01				601	AKS ALL
APU Fire Bottle Inspection TASK 26-22-01-210-801					601	AKS ALL
<u>APU FIRE EXTINGUISHING BOTTLE SQUIB - REMOVAL/INSTALLATION</u>	26-22-02				401	AKS ALL
APU Fire Extinguishing Bottle Squib Removal TASK 26-22-02-000-801					401	AKS ALL
APU Fire Extinguishing Bottle Squib Installation TASK 26-22-02-400-801					404	AKS ALL
<u>REMOTE APU CONTROL PANEL - REMOVAL/INSTALLATION</u>	26-22-03				401	AKS ALL
Remote APU Control Panel Removal TASK 26-22-03-000-801					401	AKS ALL
Remote APU Control Panel Installation TASK 26-22-03-400-801					406	AKS ALL
<u>REMOTE APU CONTROL PANEL - INSPECTION/CHECK</u>	26-22-03				601	AKS ALL
Remote APU Control Panel TASK 26-22-03-210-801					601	AKS ALL
<u>CARGO FIRE EXTINGUISHING - MAINTENANCE PRACTICES</u>	26-23-00				201	AKS ALL
Cargo Compartment Fire Extinguishers and Squibs - Deactivation TASK 26-23-00-040-801					201	AKS ALL
Cargo Compartment Fire Extinguishers and Squibs - Activation TASK 26-23-00-440-801					203	AKS ALL
<u>CARGO FIRE EXTINGUISHING - ADJUSTMENT/TEST</u>	26-23-00				501	AKS ALL
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Cargo Fire Extinguishing Discharge Line Pressure Test TASK 26-23-00-730-803					511	AKS ALL
<u>CARGO COMPARTMENT FIRE EXTINGUISHER</u> <u>BOTTLE - REMOVAL/INSTALLATION</u>	26-23-01				401	AKS ALL
Cargo Fire Extinguisher Bottle Removal TASK 26-23-01-000-801-001					401	AKS ALL
Cargo Fire Extinguisher Bottle Installation TASK 26-23-01-400-802-001					408	AKS ALL
<u>CARGO COMPARTMENT FIRE EXTINGUISHING</u> <u>SYSTEM - CLEANING/PAINTING</u>	26-23-01				701	AKS ALL
Cargo Fire Extinguishing System Cleaning TASK 26-23-01-100-801					701	AKS ALL
<u>CARGO COMPARTMENT FIRE EXTINGUISHER</u> <u>BOTTLE SQUIB - REMOVAL/INSTALLATION</u>	26-23-02				401	AKS ALL
Cargo Fire Extinguisher Bottle Squib Removal TASK 26-23-02-000-801					401	AKS ALL
Cargo Fire Extinguisher Bottle Squib Installation TASK 26-23-02-400-801					406	AKS ALL
<u>CARGO FIRE EXTINGUISHING FILTER/DRYER -</u> <u>REMOVAL/INSTALLATION</u>	26-23-04				401	AKS ALL
Cargo Fire Extinguishing Filter/Dryer Removal TASK 26-23-04-000-801					401	AKS ALL
Cargo Fire Extinguishing Filter/Dryer Installation TASK 26-23-04-400-801					404	AKS ALL
<u>LAVATORY WASTE COMPARTMENT FIRE</u> <u>EXTINGUISHING - MAINTENANCE PRACTICES</u>	26-24-01				201	AKS ALL
Lavatory Waste Compartment Fire Extinguishing Bottle Removal/Installation TASK 26-24-01-900-801					201	AKS ALL

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Lavatory Waste Compartment Temperature Indicator Strip Inspection TASK 26-24-01-210-801					601	AKS ALL
HALON FIRE EXTINGUISHERS - REMOVAL/INSTALLATION	26-26-01				401	AKS ALL
Halon Fire Extinguisher Removal TASK 26-26-01-020-801					401	AKS ALL
Halon Fire Extinguisher Installation TASK 26-26-01-430-801					403	AKS ALL
HALON FIRE EXTINGUISHERS - INSPECTION/CHECK	26-26-01				601	AKS ALL
Halon Fire Extinguishers - Inspection/Check TASK 26-26-01-200-801					601	AKS ALL
WATER FIRE EXTINGUISHERS- REMOVAL/INSTALLATION	26-26-02				401	AKS ALL
Water Fire Extinguisher Removal TASK 26-26-02-020-801					401	AKS ALL
Water Fire Extinguisher Installation TASK 26-26-02-430-801					403	AKS ALL
WATER FIRE EXTINGUISHERS - INSPECTION/CHECK	26-26-02				601	AKS ALL
Water Fire Extinguishers - Inspection/Check TASK 26-26-02-200-801					601	AKS ALL

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FIRE PROTECTION - DDG MAINTENANCE PROCEDURES

1. General

- A. This procedure has maintenance tasks for the Master Minimum Equipment List (MMEL) maintenance requirements as shown in the Dispatch Deviations Procedures Guide (DDPG). These tasks are used to prepare the airplane for flight with certain systems/components inoperative.
- B. This procedure also has the tasks that put the airplane back to its usual condition.
- C. These are the tasks for the components in the fire protection system:
 - (1) MMEL 26-3 (DDPG) Preparation - Portable Fire Extinguishers Inoperative.
 - (2) MMEL 26-3 (DDPG) Restoration - Portable Fire Extinguishers Inoperative.
 - (3) MMEL 26-4 (DDPG) Preparation - Wheel Well Fire Detection System Inoperative.
 - (4) MMEL 26-4 (DDPG) Restoration - Wheel Well Fire Detection System Inoperative.
 - (5) MMEL 26-9 (DDPG) Preparation - Engine/APU Fire Extinguisher Test System (EXT TEST) (Squib Test) Inoperative.
 - (6) MMEL 26-9 (DDPG) Restoration - Engine/APU Fire Extinguisher Test System (EXT TEST) (Squib Test) Inoperative.
 - (7) MMEL 26-15 (DDPG) Preparation - Lavatory Fire Extinguisher System Inoperative.
 - (8) MMEL 26-15 (DDPG) Restoration - Lavatory Fire Extinguisher System Inoperative.
 - (9) MMEL 26-16 (DDPG) Preparation - Lavatory Smoke Detection System Inoperative.
 - (10) MMEL 26-16 (DDPG) Restoration - Lavatory Smoke Detection System Inoperative.
 - (11) MMEL 26-16 (DDPG) Preparation - Lavatory Smoke Detector Test Switch Inoperative
 - (12) MMEL 26-16 (DDPG) Restoration - Lavatory Smoke Detector Test Switch Inoperative
 - (13) MMEL 26-18 (DDPG) Preparation - Wing-Body Overheat Test System Inoperative.
 - (14) MMEL 26-18 (DDPG) Restoration - Wing-Body Overheat Test System Inoperative.
 - (15) MMEL 26-19a (DDPG) Preparation - Lower Cargo Compartment Extinguisher Bottle No. 2 Inoperative.
 - (16) MMEL 26-19a (DDPG) Restoration - Lower Cargo Compartment Extinguisher Bottle No. 2 Inoperative.
 - (17) MMEL 26-19b (DDPG) Preparation - Lower Cargo Compartment DISCH or EXT Light Inoperative.
 - (18) MMEL 26-19c (DDPG) Preparation - Lower Cargo Compartment Extinguisher Bottle Pressure Switch Inoperative.
 - (19) MMEL 26-19c (DDPG) Restoration - Lower Cargo Compartment Extinguisher Bottle Pressure Switch Inoperative.

TASK 26-00-00-040-813

2. MMEL 26-3 (DDPG) Preparation - Portable Fire Extinguishers Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the inoperative Portable Fire Extinguishers.

B. References

Reference	Title
26-26-01-020-801	Halon Fire Extinguisher Removal (P/B 401)

EFFECTIVITY
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Reference	Title
26-26-02-020-801	Water Fire Extinguisher Removal (P/B 401)

C. Deactivation of Inoperative Portable Fire Extinguishers

SUBTASK 26-00-00-020-008

- (1) Do the applicable task to remove the inoperative portable fire extinguisher: Halon Fire Extinguisher Removal, TASK 26-26-01-020-801 or Water Fire Extinguisher Removal, TASK 26-26-02-020-801.

SUBTASK 26-00-00-040-032

- (2) Stow the extinguisher.
 - (a) Put the extinguisher in a bag
 - (b) Make sure that the extinguisher can not be used by mistake

NOTE: The extinguisher will be removed from the airplane at the next available maintenance base.

SUBTASK 26-00-00-610-001

- (3) Make sure that the necessary supply of serviceable extinguishers is available during maintenance.

———— END OF TASK ————

TASK 26-00-00-440-812

3. MMEL 26-3 (DDPG) Restoration - Portable Fire Extinguishers Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the inoperative Portable Fire Extinguishers.

B. References

Reference	Title
26-26-01-430-801	Halon Fire Extinguisher Installation (P/B 401)
26-26-02-430-801	Water Fire Extinguisher Installation (P/B 401)

C. Reactivation of the Inoperative Portable Fire Extinguishers

SUBTASK 26-00-00-020-009

- (1) Remove the inoperative extinguisher from the airplane.

SUBTASK 26-00-00-420-006

- (2) Do the applicable task to install the new portable fire extinguisher Halon Fire Extinguisher Installation, TASK 26-26-01-430-801 or Water Fire Extinguisher Installation, TASK 26-26-02-430-801.

———— END OF TASK ————

TASK 26-00-00-040-802

4. MMEL 26-4 (DDPG) Preparation - Wheel Well Fire Detection System Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the Wheel Well Fire Detection System Inoperative.

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B. References

Reference	Title
22-11-33-000-801	Flight Control Computer Removal (P/B 401)
22-11-33-400-801	Flight Control Computer Installation (P/B 401)
26-18-00-710-801	Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Wheel Well Fire Detection System Deactivation

SUBTASK 26-00-00-210-001

- (1) Make sure that the brakes are cool to touch before the start of the engine.

SUBTASK 26-00-00-040-025

- (2) Do a CODC "LOCAL TEST".

SUBTASK 26-00-00-040-026

- (3) If the fault code from the CODC "LOCAL TEST" is other than "84", do these steps:

- (a) Remove the two light bulbs from the WHEEL WELL light on the P8 panel.
 - 1) Install an INOP - FIRE BELL DISCONNECTED placard on the light switch.
- (b) Disconnect the fire bell
 - 1) Remove Flight Control Computer B to get access to the wiring for the fire bell (TASK 22-11-33-000-801).
 - 2) Disconnect the wires from D742, pin 16 and pin 25 on the E1-4 shelf.
 - 3) Cap and stow the wires.
 - 4) Install the Flight Control Computer B (TASK 22-11-33-400-801).
- (c) Install a WHEEL WELL WARNING LIGHT AND BELL INOP placard on the captain's and first officer's FIRE WARN lights.

SUBTASK 26-00-00-040-027

- (4) If the fault code from the CODC "LOCAL TEST" is "84", the wheel well fire alarm function is the source of the fault. Do these steps:

- (a) Disconnect either the terminal lugs or connectors D840 and D842 (if installed) on both sides of the M270 detection element.
- (b) Do a second CODC "LOCAL TEST".
- (c) If the second CODC "LOCAL TEST" presents any fault codes, do these steps:
 - 1) Reconnect the terminal lugs or connectors D840 and D842 (if installed) on both sides of the M270 detection element.
 - 2) Remove the two light bulbs from the WHEEL WELL light on the P8 panel.
 - a) Install an INOP - FIRE BELL DISCONNECTED placard on the light switch.
 - 3) Disconnect the fire bell
 - a) Remove the Flight Control Computer B to get access to the wiring for the fire bell (TASK 22-11-33-000-801).

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- b) Disconnect the wires from D742, pin 16 and pin 25 on the E1-4 shelf.
- c) Cap and stow the wires.
- d) Install the Flight Control Computer B (TASK 22-11-33-400-801).
- 4) Install a WHEEL WELL WARNING LIGHT AND BELL INOP placard on the captain's and first officer's FIRE WARN lights.
- (d) If the second CODC "LOCAL TEST" shows no faults, do these steps:
 - 1) Stow the wiring and terminal lugs or connectors D840 and D842 (if installed) near the detector element.
 - 2) Do the Overheat/Fire Warning Test (TASK 26-18-00-710-801)
 - a) Make sure all tests should pass except for the wheel well fire function with the disabled element.

———— END OF TASK ————

TASK 26-00-00-440-802

5. MMEL 26-4 (DDPG) Restoration - Wheel Well Fire Detection System Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the Wheel Well Fire Detection Systems Inoperative.

B. References

Reference	Title
22-11-33-000-801	Flight Control Computer Removal (P/B 401)
22-11-33-400-801	Flight Control Computer Installation (P/B 401)

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Wheel Well Fire Detection Systems Activation

SUBTASK 26-00-00-810-002

- (1) Correct the fault.
 - (a) Find the fault code or description of the fault that occurred.
 - (b) Go to the applicable index or list in the FIM and find the FIM task number.
 - (c) Go to the task in the FIM and do the steps in the task.

SUBTASK 26-00-00-040-004

- (2) Install the two light bulbs in the WHEEL WELL light on the P8-1 panel.
 - (a) Remove an INOP - FIRE BELL DISCONNECTED placard from the switch.

SUBTASK 26-00-00-010-008

- (3) Remove Flight Control Computer - B to get access to the wiring for the fire bell (Flight Control Computer Removal, TASK 22-11-33-000-801).

SUBTASK 26-00-00-930-004

- (4) Install the wire on D742, pin 16 on the E1-4 shelf.

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- (a) Remove the WHEEL WELL WARNING LIGHT AND BELL INOP placard from the captain's and first officer's FIRE WARN lights.

SUBTASK 26-00-00-410-007

- (5) Install Flight Control Computer - B (Flight Control Computer Installation, TASK 22-11-33-400-801).

———— END OF TASK ————

TASK 26-00-00-040-803

6. MMEL 26-9 (DDPG) Preparation - Engine/APU Fire Extinguisher Test System (EXT TEST) (Squib Test) Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the Engine/APU Squib Test (EXT TEST switch) Inoperative.

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Engine/APU Extinguisher System (EXT TEST) (Squib Test) Deactivation

SUBTASK 26-00-00-760-001

WARNING: USE THE CORRECT LAMP WHEN YOU MAKE THE SQUIB TESTER. IF YOU USE AN INCORRECT LAMP, THE HIGH ELECTRICAL CURRENT CAN CAUSE THE SQUIB TO FIRE. THIS WILL RELEASE THE EXTINGUISHING AGENT. INJURIES TO PERSONNEL CAN OCCUR.

- (1) Prepare to do a Test of the Squib Circuits
(a) Make a squib test lamp with pigtail leads that end in pin contacts. Use only a 28 volt, 40 millamp lamp in a applicable holder.

SUBTASK 26-00-00-040-005

- (2) Make sure that the squib circuit operates.
(a) Open these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

- (b) Pull the engine 1, engine 2, and APU fire handles on the P8-1 panel.

WARNING: THE P6-2 CIRCUIT BREAKER PANEL CONTAINS HIGH VOLTAGES AND CURRENTS THAT CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT. BE CAREFUL WHEN ACCESSING THE P6-2 CIRCUIT BREAKER PANEL.

- (c) Loosen the screws to lower the P6-2 circuit breaker panel.

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WARNING: MAKE SURE EVERYONE IS CLEAR OF THE ENGINES AND APU.
 ACCIDENTAL DISCHARGE OF THE FIRE EXTINGUISHING BOTTLE CAN
 CAUSE INJURY TO PERSONS.

- (d) Connect the test lamp across the circuit breaker shown in the table below.
- (e) Turn the applicable fire handle in the direction that is shown in the table.
- 1) Make sure that the lamp comes on for each position.

NOTE: If the lamp comes on, the squib is satisfactory.

Table 901/26-00-00-993-801

CIRCUIT BREAKER	FIRE HANDLE	DIRECTION
C296 FIRE PROTECTION EXTINGUISHERS LEFT	ENG 1 ENG 2	LEFT LEFT
C297 FIRE PROTECTION EXTINGUISHERS RIGHT	ENG 1 ENG 2	RIGHT RIGHT
C452 FIRE PROTECTION EXTINGUISHERS APU	APU APU	LEFT RIGHT
C1021 FIRE PROTECTION EXTINGUISHERS ALTN LEFT	ENG 1 ENG 2	LEFT LEFT
C1022 FIRE PROTECTION EXTINGUISHERS ALTN RIGHT	ENG 1 ENG 2	RIGHT RIGHT

- (f) Remove the test lamp after you do the check for all of the circuit breakers.
- (g) Push the engine 1, engine 2, and APU fire handles on the P8-1 panel to the normal position.
- (h) Close the P6-2 panel, and install the screws.
- (i) Close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-00-00-930-005

- (3) Install a TEST INOP placard on the EXT TEST switch, on the P8-1 panel.

———— END OF TASK ————

TASK 26-00-00-040-804

7. MMEL 26-9 (DDPG) Restoration - Engine/APU Fire Extinguisher Test System (EXT TEST) (Squib Test) Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the Engine/APU Squib Test (EXT TEST switch) Inoperative.

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B. References

Reference	Title
26-10-00-710-801	Fire and Overheat Detection System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Engine/APU Extinguisher System (EXT TEST) (Squib Test) Activation

SUBTASK 26-00-00-810-003

- (1) Correct the fault.
 - (a) Find the fault code or description of the fault that occurred.
 - (b) Go to the applicable index or list in the FIM and find the FIM task number.
 - (c) Go to the task in the FIM and do the steps in the task.

SUBTASK 26-00-00-710-002

- (2) Do this task: Fire and Overheat Detection System - Operational Test, TASK 26-10-00-710-801.

SUBTASK 26-00-00-930-006

- (3) Remove the TEST INOP placard from the EXT TEST switch, on the P8-1 panel.

———— END OF TASK ————

TASK 26-00-00-040-805

8. MMEL 26-15 (DDPG) Preparation - Lavatory Fire Extinguisher System Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the Lavatory Fire Extinguisher System inoperative.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Lavatory Deactivation

SUBTASK 26-00-00-040-006

- (1) If the Lavatory Smoke Detector operates, do this step.

- (a) Install INOP placard on the fire extinguisher bottle.

SUBTASK 26-00-00-040-007

- (2) If the Lavatory Smoke Detector does not operate, do these steps.

- (a) Empty the lavatory waste receptacle.

- (b) Close and lock the lavatory door.

- (c) Install an INOPERATIVE - DO NOT ENTER placard on the lavatory door.

———— END OF TASK ————



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TASK 26-00-00-440-803

9. MMEL 26-15 (DDPG) Restoration - Lavatory Fire Extinguisher System Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the Lavatory Fire Extinguisher System Inoperative.

B. Location Zones

Zone	Area
------	------

200	Upper Half of Fuselage
-----	------------------------

C. Lavatory Fire Extinguisher System Activation

SUBTASK 26-00-00-810-004

- (1) Replace the Fire Extinguisher bottle.

SUBTASK 26-00-00-040-008

- (2) Remove the INOP placards from the Fire Bottle, and lavatory door.

———— END OF TASK ————

TASK 26-00-00-040-806

10. MMEL 26-16 (DDPG) Preparation - Lavatory Smoke Detector System Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the Lavatory Smoke Detector System inoperative.

B. Location Zones

Zone	Area
------	------

200	Upper Half of Fuselage
-----	------------------------

C. Lavatory Deactivation

SUBTASK 26-00-00-040-010

- (1) Do the following steps:
- Empty the lavatory waste receptacle.
 - Close and lock the lavatory door.
 - Install an INOPERATIVE - DO NOT ENTER placard on the lavatory door.

———— END OF TASK ————

TASK 26-00-00-440-804

11. MMEL 26-16 (DDPG) Restoration - Lavatory Smoke Detector System Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the Lavatory Smoke Detector System Inoperative.

B. Location Zones

Zone	Area
------	------

200	Upper Half of Fuselage
-----	------------------------

C. Lavatory Smoke Detector System Activation

SUBTASK 26-00-00-810-005

- (1) Correct the fault.

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- (a) Find the fault code or description of the fault that occurred.
- (b) Go to the applicable index or list in the FIM and find the FIM task number.
- (c) Go to the task in the FIM and do the steps in the task.

SUBTASK 26-00-00-040-011

- (2) Remove the INOP placard from the lavatory door.

———— END OF TASK ————

TASK 26-00-00-040-814

12. MMEL 26-16 (DDPG) Preparation - Lavatory Smoke Detector Test Switch Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the Lavatory Smoke Detector Test Switch inoperative.

NOTE: This procedure is applicable to the inoperable SELF TEST switch, on the smoke detector, or the TEST switch, on the Flight Attendant's Panel.

B. References

Reference	Title
26-14-00-730-801	Lavatory Smoke Detection - Smoke Test (P/B 501)

C. Lavatory Smoke Detector Deactivation

SUBTASK 26-00-00-040-033

- (1) For each smoke detector, do the lavatory smoke detection system test (Lavatory Smoke Detection - Smoke Test, TASK 26-14-00-730-801).
 - (a) The test switch may be inoperative provided that each lavatory smoke detector is verified to pass the smoke test.
 - (b) If the lavatory smoke detector did not pass the smoke test, then do the following:
 - 1) Empty the lavatory waste receptacle.
 - 2) Close and lock the lavatory door.
 - 3) Install an INOPERATIVE - DO NOT ENTER placard on the lavatory door.

———— END OF TASK ————

TASK 26-00-00-440-813

13. MMEL 26-16 (DDPG) Restoration - Lavatory Smoke Detector Test Switch Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with a Lavatory Smoke Detector Test Switch inoperative.

NOTE: This procedure is applicable to the inoperable SELF TEST switch, on the smoke detector, or the TEST switch, on the Flight Attendant's Panel.

B. References

Reference	Title
26-14-01 P/B 401	LAVATORY SMOKE DETECTOR - REMOVAL/INSTALLATION

C. Lavatory Smoke Detector Activation

SUBTASK 26-00-00-440-003

- (1) If the lavatory smoke detector did not pass the smoke test, then do the following:

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- (a) Remove the INOP placard from the lavatory door.
- (b) Unlock the lavatory door.

SUBTASK 26-00-00-400-001

- (2) Replace the lavatory smoke detector (PAGEBLOCK 26-14-01/401).

———— END OF TASK ————

TASK 26-00-00-040-807

14. MMEL 26-18 (DDPG) Preparation - Wing Body Overheat Test System Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the Wing Body Overheat Test System inoperative.

B. Location Zones

Zone	Area
131	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Left
132	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Right
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Check the Wing-Body Overheat Test System

SUBTASK 26-00-00-040-012

- (1) Apply heat from an appropriate heat source to an operable detector element in the left wing-body overheat detection system and in the right wing-body overheat detection system.
NOTE: The substitute test heat device must not produce heat greater than 450°F (232°C). This temperature limit should be observed in event fuel vapors exist in the area.

SUBTASK 26-00-00-040-028

- (2) When a detector element in the left system is heated, observe that these lights come on:
 - (a) Left WING-BODY OVERHEAT light on the Air Conditioning Panel (P5).
 - (b) The AIR COND light on the glareshield P7.
 - (c) The MASTER CAUTION lights.

SUBTASK 26-00-00-040-029

- (3) When a detector element in the right system is heated, observe that these lights come on:
 - (a) Right WING-BODY OVERHEAT light on the Air Conditioning Panel (P5).
 - (b) The AIR COND light on the glareshield P7.
 - (c) The MASTER CAUTION lights.

———— END OF TASK ————

TASK 26-00-00-440-805

15. MMEL 26-18 (DDPG) Restoration - Wing/Body Overheat Test System Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the Wing/Body Overheat Test Systems Inoperative.

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B. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Wing/Body Overheat Test Systems Activation

SUBTASK 26-00-00-810-006

- (1) Correct the fault.

- (a) Find the fault code or description of the fault that occurred.
- (b) Go to the applicable index or list in the FIM and find the FIM task number.
- (c) Go to the task in the FIM and do the steps in the task.

SUBTASK 26-00-00-040-013

- (2) Remove the TEST SWITCH INOP placard from the OVHT TEST switch on the Air Conditioning Panel, P5-10.

———— END OF TASK ————

TASK 26-00-00-040-808

16. MMEL 26-19a (DDPG) Preparation - Lower Cargo Compartment Extinguisher Bottle No. 2 Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the Lower Cargo Compartment Extinguisher Bottle No. 2 Inoperative.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)

C. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
821	Forward Cargo Door

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E. Lower Cargo Compartment Extinguisher Bottle No. 2 Deactivation

SUBTASK 26-00-00-860-001

- (1) Make sure that this circuit breaker is open and has safety tag:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2

SUBTASK 26-00-00-010-002

- (2) Open this access panel:

Number Name/Location

821 Forward Cargo Door

- (3) Remove the lining at the aft end of the forward cargo compartment to get access to the air conditioning distribution bay.

SUBTASK 26-00-00-040-024

- (4) Do the steps that follow to deactivate Extinguisher Bottle No. 2 and prevent anomalies in the indication of the DISCH light during operation and the EXT FWD light during the system test:

NOTE: The steps that follow are only applicable to the Boeing System. For systems installed by STC, see the STC holder.

SUBTASK 26-00-00-020-001

WARNING: DO NOT TOUCH THE PINS ON THE SQUIB. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (5) Disconnect the electrical connectors from the bottle.

- (a) Before you touch the squibs, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:

- ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802
- ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802

- (b) Disconnect, cap, and stow electrical connector D12816 on the Extinguisher Bottle No. 2 pressure switch.

- (c) Disconnect electrical connectors D12820 and D12818 from the Extinguisher Bottle No. 2 squibs.

WARNING: PUT A PROTECTIVE COVER ON THE BOTTLE SQUIB. IF YOU DO NOT PUT A PROTECTIVE COVER ON THE SQUIB, THE FIRE EXTINGUISHING BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

- (d) Install a jumper across pins 1 and 2 on the electrical connectors D12820 and D12818..
 - (e) Cap and stow the connectors.

SUBTASK 26-00-00-410-002

- (6) Install the liner at the aft end of the forward cargo compartment to the air conditioning distribution bay.

Close this access panel:

Number Name/Location

821 Forward Cargo Door

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SUBTASK 26-00-00-930-013

- (7) Do the step that follow to INOP the Fire Extinguisher Bottle No. 2:
 - (a) Install the Fire Bottle No. 2 INOP Placard on the Cargo Fire Panel (P8).

SUBTASK 26-00-00-860-002

- (8) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2

———— END OF TASK ————

TASK 26-00-00-440-806

17. MMEL 26-19a (DDPG) Restoration - Lower Cargo Compartment Extinguisher Bottle No. 2 Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the Lower Cargo Compartment Extinguisher Bottle No. 2 Inoperative.

B. Location Zones

<u>Zone</u>	<u>Area</u>
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Access Panels

<u>Number</u>	<u>Name/Location</u>
821	Forward Cargo Door

D. Lower Cargo Compartment Extinguisher Bottle No. 2 Activation

SUBTASK 26-00-00-860-003

- (1) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2

SUBTASK 26-00-00-010-003

- (2) Open this access panel:

Number Name/Location

821	Forward Cargo Door
-----	--------------------

- (3) Remove the lining at the aft end of the forward cargo compartment to get access to the air conditioning distribution bay.

SUBTASK 26-00-00-800-001

- (4) Do the steps that follow to Activate the Extinguisher Bottle No. 2 System:

- (a) Remove the cap, and stowed electrical connector D12816, D12820 and D12818.

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- (b) Remove the jumper across pins 1 and 2 on the connectors D12820 and D12818.
- (c) Remove the protective cap installed on the Bottle Squib.

SUBTASK 26-00-00-420-004

WARNING: DO NOT TOUCH THE PINS ON THE SQUIB. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

WARNING: MAKE SURE THAT THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN RELEASE THE CONTENTS OF THE BOTTLE SUDDENLY. THIS CAN CAUSE INJURIES TO PERSONNEL.

- (5) Connect the electrical connectors to the Extinguisher Bottle.
 - (a) Connect the electrical connector D12816 on the Extinguisher Bottle No. 2 pressure switch.
 - (b) Connect electrical connectors D12820 and D12818 on the Extinguisher Bottle No. 2 squibs

SUBTASK 26-00-00-410-003

- (6) Install the liner at the aft end of the forward cargo compartment to the air conditioning distribution bay.

Close this access panel:

Number	Name/Location
821	Forward Cargo Door

SUBTASK 26-00-00-930-018

- (7) Do the step that follow to Activate the Fire Extinguisher No. 2 :
 - (a) Remove the Fire Extinguisher Bottle No. 2 INOP Placard on the Cargo Fire Panel.

SUBTASK 26-00-00-860-004

- (8) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2

———— END OF TASK ————

TASK 26-00-00-040-809

18. MMEL 26-19b (DDPG) Preparation - Lower Cargo Compartment DISCH or EXT Light Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the Lower Cargo Compartment DISCH or EXT Light Inoperative.

B. References

Reference	Title
26-00-02-000-801	Cargo Fire Control Panel Removal (P/B 401)
26-00-02-400-801	Cargo Fire Control Panel Installation (P/B 401)

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C. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Lower Cargo Compartment DISCH or EXT Light Deactivation

SUBTASK 26-00-00-010-007

- (1) Do this task Cargo Fire Control Panel Removal, TASK 26-00-02-000-801

SUBTASK 26-00-00-020-005

- (2) Do the steps that follow for an inoperative DISCH light circuit to make sure that the fire extinguisher bottles have an adequate charge:

NOTE: The steps that follow are only applicable to the Boeing System. For systems installed by STC, see the STC holder. You will need a 28VDC circuit test lamp, with pigtail leads that terminate in pin contacts in an applicable holder. To make the lamp, lamp P/N 116-565-1042-001 (28 volt, 40 millamps) or the equivalent is suggested, but you can use an applicable lamp or a digital multimeter.

- (a) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	17	C01526	CARGO FIRE EXT 1

- (b) Connect the test lamp or digital multimeter between the airplane side of connector D12760, pin 48 (the +28 volt source for Bottle No. 1) and pin 28 (pressure switch ground).

- (c) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	17	C01526	CARGO FIRE EXT 1

- (d) If the test lamp stays OFF or the digital multimeter shows an OPEN circuit, the fire extinguisher bottle has an adequate charge.

- (e) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	17	C01526	CARGO FIRE EXT 1

- (f) Remove the test lamp.

- (g) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	17	C01526	CARGO FIRE EXT 1

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- (h) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2

- (i) Connect the test lamp or digital multimeter between the airplane side of connector D12760, pin 45 (the +28 volt source for Bottle No. 2) and pin 28 (pressure switch ground).
(j) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2

- (k) If the test lamp stays OFF or the digital multimeter shows an OPEN circuit, the fire extinguisher bottle has an adequate charge.
(l) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2

- (m) Remove the test lamp.
(n) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2

SUBTASK 26-00-00-750-008

WARNING: KEEP PERSONNEL AWAY FROM THE EXTINGUISHER BOTTLE AREA DURING THE SQUIB CIRCUIT TEST. USE A MAXIMUM CURRENT OF 40 MILLIAMPS DURING THE TEST. USE ONLY TEST LAMP P/N 116-565-1042-001 (28 VOLT, 40 MILLIAMPS) OR ITS EQUIVALENT. DO NOT USE A MULTIMETER. IF THE EXTINGUISHER BOTTLE RELEASES THE EXTINGUISHING MATERIAL, IT CAN CAUSE INJURIES TO PERSONNEL.

- (3) Do the steps that follow to make sure that the EXT light SQUIB circuit operates correctly:

NOTE: If the test lamp comes ON, the squib circuit is good.

- (a) Connect the test lamp between D12760 pin 48 (the +28 volt source for Bottle No. 1) and pin 26 (EXT 1 FWD squib).
 1) Make sure the test lamp comes on.
(b) Connect the test lamp between D12760 pin 48 (the +28 volt source for Bottle No. 1) and pin 24 (EXT 1 AFT squib).
 1) Make sure the test lamp comes on.
(c) Connect the test lamp between D12760 pin 45 (the +28 volt source for Bottle No. 2) and pin 12 (EXT 2 FWD squib).
 1) Make sure the test lamp comes on.
(d) Connect the test lamp between D12760 pin 45 (the +28 volt source for Bottle No. 2) and pin 23 (EXT 2 AFT squib).

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- 1) Make sure the test lamp comes on.
- (e) Remove the test lamp.

SUBTASK 26-00-00-410-004

- (4) Do this task Cargo Fire Control Panel Installation, TASK 26-00-02-400-801

———— END OF TASK ————

TASK 26-00-00-440-811

19. MMEL 26-19b (DDPG) Restoration - Lower Cargo Compartment DISCH or EXT Light Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the Lower Cargo Compartment DISCH or EXT Light Inoperative.

B. References

Reference	Title
26-16-00-710-801	Cargo Bay Smoke Detection - Operational Test (P/B 501)
26-23-00-730-802	Cargo Fire Extinguishing Bottle Pressure Switch Circuit Test (P/B 501)

C. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Lower Cargo Compartment DISCH or EXT Light Activation

SUBTASK 26-00-00-810-007

- (1) Correct the fault.
 - (a) Find the fault code or description of the fault that occurred.
 - (b) Go to the applicable index or list in the FIM and find the FIM task number.
 - (c) Go to the task in the FIM and do the steps in the task.

SUBTASK 26-00-00-710-003

- (2) Do this task for the DISCH light: Cargo Fire Extinguishing Bottle Pressure Switch Circuit Test, TASK 26-23-00-730-802.
- (3) Do this task for the EXT light: Cargo Bay Smoke Detection - Operational Test, TASK 26-16-00-710-801.

———— END OF TASK ————

TASK 26-00-00-040-810

20. MMEL 26-19c (DDGP) Preparation - Lower Cargo Compartment Extinguisher Bottle Pressure Switch Inoperative

A. General

- (1) This task gives maintenance steps which prepare the airplane for flight with the Lower Cargo Compartment Extinguisher Bottle Pressure Switch Inoperative.

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B. References

Reference	Title
26-23-01	CARGO COMPARTMENT FIRE EXTINGUISHER BOTTLE
26-23-01-000-801-001	Cargo Fire Extinguisher Bottle Removal (P/B 401)
26-23-01-400-802-001	Cargo Fire Extinguisher Bottle Installation (P/B 401)

C. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Lower Cargo Compartment Extinguisher Bottle Pressure Switch Deactivation

SUBTASK 26-00-00-020-003

WARNING: DO NOT TOUCH THE PINS ON THE SQUIB. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (1) Do the steps that follow to deactivate the applicable Extinguisher Bottle pressure switch:
 - (a) Do this task: Cargo Fire Extinguisher Bottle Removal, TASK 26-23-01-000-801-001
 - (b) Disconnect the electrical connectors from the Bottle.
 - (c) Cap and stow the bottle pressure switch, electrical connector.

SUBTASK 26-00-00-280-002

- (2) Weigh the applicable Extinguisher Bottle on a scale that is accurate to within +/-0.1 lb (0.0 kg).
 - (a) Make sure that the bottle weight is within 0.25 lb (0.11 kg) of the service weight marked on the bottle name plate, refer to CARGO COMPARTMENT FIRE EXTINGUISHER BOTTLE, SUBJECT 26-23-01.

SUBTASK 26-00-00-420-005

- (3) Do this task: Cargo Fire Extinguisher Bottle Installation, TASK 26-23-01-400-802-001.

SUBTASK 26-00-00-930-017

- (4) Install the applicable Extinguisher Bottle pressure switch INOP Placard on the Cargo Fire Panel (P8).

————— END OF TASK ————

TASK 26-00-00-440-808

21. MMEL 26-19c (DDGP) Restoration - Lower Cargo Compartment Extinguisher Bottle Pressure Switch Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the Lower Cargo Compartment Extinguisher Bottle Pressure Switch Inoperative.

B. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left

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(Continued)

Zone	Area
122	Forward Cargo Compartment - Right
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Access Panels

Number	Name/Location
821	Forward Cargo Door

D. Lower Cargo Compartment Extinguisher Bottle Pressure Switch Activation

SUBTASK 26-00-00-860-019

- (1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

SUBTASK 26-00-00-010-006

- (2) Open this access panel:

Number Name/Location

821	Forward Cargo Door
-----	--------------------

- (3) Remove the lining at the aft end of the forward cargo compartment to get access to the air conditioning distribution bay.

SUBTASK 26-00-00-440-001

- (4) Do the steps that follow to Activate the applicable Extinguisher Bottle, pressure switch:

- (a) Remove the cap from the pressure switch, electrical connector.
- (b) Connect the applicable Extinguisher Bottle, pressure switch electrical connector to the pressure switch.

SUBTASK 26-00-00-410-006

- (5) Install the liner at the aft end of the forward cargo compartment to the air conditioning distribution bay.

Close this access panel:

Number Name/Location

821	Forward Cargo Door
-----	--------------------

SUBTASK 26-00-00-930-012

- (6) Remove the applicable Extinguisher Bottle pressure switch INOP Placard on the Cargo Fire Panel (P8).

SUBTASK 26-00-00-860-011

- (7) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2



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(Continued)

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	17	C01526	CARGO FIRE EXT 1

———— END OF TASK ————

TASK 26-00-00-040-812

22. MMEL 26-21 (DDPG) Preparation - Cabin Configuration Test Panel CARGO/PASSENGER Lights Inoperative (FAA)

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the Cabin Configuration Test Panel CARGO/PASSENGER Lights Inoperative.

NOTE: This procedure contains unique instructions for aircraft using the FAA MMEL.

B. Cabin Configuration Test Panel CARGO/PASSENGER Lights Deactivation

SUBTASK 26-00-00-040-030

- (1) For airplanes in Cargo Configuration, Make sure that
 - (a) Mode selector switch on the service panel E/E bay is set to CARGO.
 - (b) Passenger oxygen shutoff valve located in the aft cargo compartment is in the CLOSED position.

SUBTASK 26-00-00-040-031

- (2) For airplanes in Passenger Configuration, Make sure that
 - (a) Mode selector switch on the service panel E/E bay is set to PASS.
 - (b) Passenger oxygen shutoff valve located in the aft cargo compartment is in the OPEN position.

———— END OF TASK ————

TASK 26-00-00-440-810

23. MMEL 26-21 (DDPG) Restoration - Cabin Configuration Test Panel CARGO/PASSENGER Lights Inoperative (FAA)

A. General

- (1) This task puts the airplane back to its usual condition after operation with the Cabin Configuration Test Panel CARGO/PASSENGER Lights Inoperative.

NOTE: This procedure contains unique instructions for aircraft using the FAA MMEL.

B. Cabin Configuration Test Panel CARGO/PASSENGER Lights Inoperative Activation

SUBTASK 26-00-00-440-002

- (1) Correct the fault.
 - (a) Find the fault code or description of the fault that occurred.
 - (b) Go to the applicable index or list in the FIM and find the FIM task number.
 - (c) Go to the task in the FIM and do the steps in the task.

———— END OF TASK ————

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ENGINE AND APU FIRE CONTROL PANEL - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Engine and APU Fire Control Panel Removal
 - (2) Engine and APU Fire Control Panel Installation
 - (3) Engine and APU Fire Shutoff Switch Assembly Removal
 - (4) Engine and APU Fire Shutoff Switch Assembly Installation.
- B. The Engine and APU Fire Control Panel is installed on the P8 aisle control stand in the flight compartment.

TASK 26-00-01-000-801

2. Engine and APU Fire Control Panel Removal

(Figure 401)

A. General

- (1) This task gives instructions to remove the Engine and APU Fire Control Panel.

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Prepare for the Removal

SUBTASK 26-00-01-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1
B	19	C01344	APU FIRE SW POWER
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
B	3	C00360	FUEL SPAR VALVE ENG 2
B	4	C00359	FUEL SPAR VALVE ENG 1

SUBTASK 26-00-01-860-004

- (2) If it is necessary, set the engine fuel levers to IDLE to get access to remove the Engine and APU Fire Control Panel.

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D. Engine and APU Fire Control Panel Removal

SUBTASK 26-00-01-020-001

- (1) Loosen the four quarter turn fasteners that attach the engine and APU fire control panel [1] to the frame.

SUBTASK 26-00-01-020-002

- (2) Slide the engine and APU fire control panel [1] from the frame.

SUBTASK 26-00-01-020-003

- (3) Tag and remove the five electrical connectors.

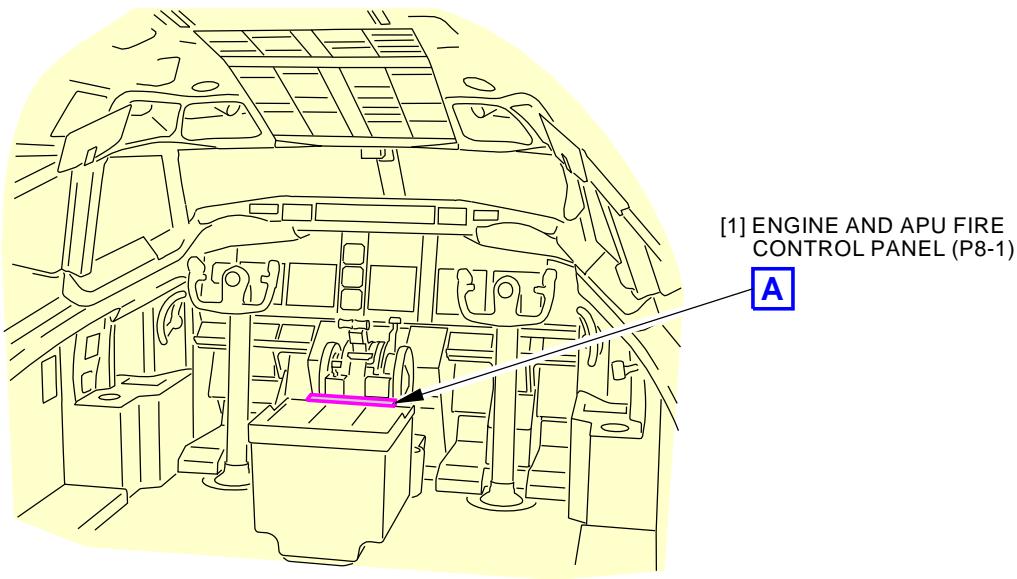
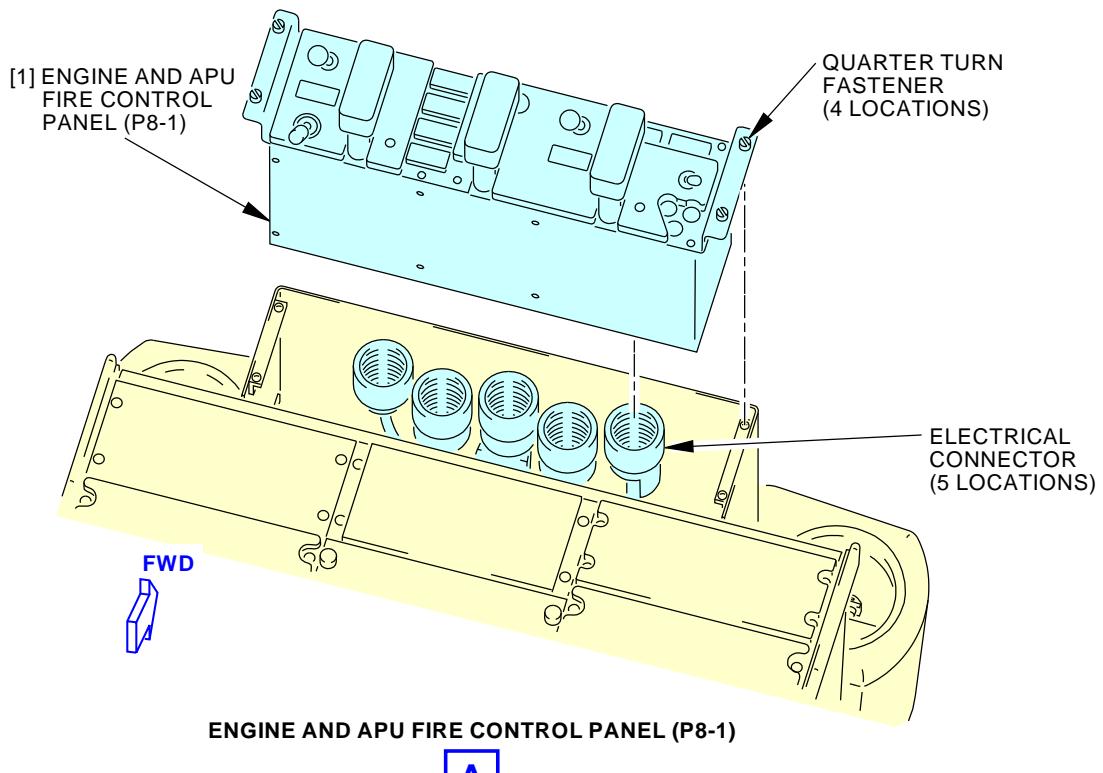
SUBTASK 26-00-01-860-005

- (4) Make sure the engine fuel levers switch to CUTOFF.

———— END OF TASK ————

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FLIGHT COMPARTMENT


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**Fire Control Panel Installation
Figure 401/26-00-01-990-801**

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TASK 26-00-01-400-801

3. Engine and APU Fire Control Panel Installation

(Figure 401)

A. General

- (1) This task gives instructions to install the Engine and APU Fire Control Panel.

B. References

Reference	Title
26-10-00-710-801	Fire and Overheat Detection System - Operational Test (P/B 501)
26-18-00-710-801	Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test (P/B 501)
26-21-00-720-802	Engine Fire Switch System Shutdown Test (P/B 501)
26-21-00-730-801	Engine Fire Extinguishing Bottle Squib Circuit Test (P/B 501)
26-21-00-730-802	Engine Fire Extinguishing Bottle Pressure Switch Circuit Test (P/B 501)
26-22-00-720-801	APU Fire Switch System Shutdown Test (P/B 501)
26-22-00-730-801	APU Fire Extinguishing Bottle Squib Circuit Test (P/B 501)
26-22-00-730-802	APU Fire Extinguishing Bottle Pressure Switch Circuit Test (P/B 501)

C. Consumable Materials

Reference	Description	Specification
A00767	Sealant - Fuel Tank	BMS5-45

D. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

E. Prepare for the Installation

SUBTASK 26-00-01-860-002

- (1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1
B	19	C01344	APU FIRE SW POWER
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L



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F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	3	C00360	FUEL SPAR VALVE ENG 2
B	4	C00359	FUEL SPAR VALVE ENG 1

SUBTASK 26-00-01-860-006

- (2) If it is necessary, set the engine fuel levers to IDLE to get access to install the Engine and APU Fire Control Panel.

F. Engine and APU Fire Control Panel Installation

SUBTASK 26-00-01-390-001

- (1) Put a thin layer sealant, A00767 around the edge of the Engine and APU Fire Control Panel.

SUBTASK 26-00-01-200-001

- (2) Make sure that the pins are not bent or damaged and the connector is not damaged.

SUBTASK 26-00-01-420-001

- (3) Install the five connectors in accordance with tag information and remove the tags.

SUBTASK 26-00-01-020-004

- (4) Slide the engine and APU fire control panel [1] into the frame and secure with the four quarter turn fasteners.

SUBTASK 26-00-01-860-007

- (5) Make sure the engine fuel levers switch to CUTOFF.

G. Engine and APU Fire Detection Control Unit Installation Test

SUBTASK 26-00-01-860-010

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1
B	19	C01344	APU FIRE SW POWER
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	3	C00360	FUEL SPAR VALVE ENG 2
B	4	C00359	FUEL SPAR VALVE ENG 1

SUBTASK 26-00-01-720-001

- (2) Do this task: Fire and Overheat Detection System - Operational Test, TASK 26-10-00-710-801.

SUBTASK 26-00-01-720-002

- (3) Do this task: Engine Fire Switch System Shutdown Test, TASK 26-21-00-720-802.

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SUBTASK 26-00-01-710-001

- (4) Do this task: Engine Fire Extinguishing Bottle Squib Circuit Test, TASK 26-21-00-730-801.

SUBTASK 26-00-01-720-003

- (5) Do this task: Engine Fire Extinguishing Bottle Pressure Switch Circuit Test, TASK 26-21-00-730-802.

SUBTASK 26-00-01-720-004

- (6) Do this task: APU Fire Switch System Shutdown Test, TASK 26-22-00-720-801.

SUBTASK 26-00-01-720-005

- (7) Do this task: APU Fire Extinguishing Bottle Squib Circuit Test, TASK 26-22-00-730-801.

SUBTASK 26-00-01-720-006

- (8) Do this task: APU Fire Extinguishing Bottle Pressure Switch Circuit Test, TASK 26-22-00-730-802.

SUBTASK 26-00-01-710-002

- (9) Do this task: Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test, TASK 26-18-00-710-801.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 26-00-01-860-008

- (1) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1
B	19	C01344	APU FIRE SW POWER
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	3	C00360	FUEL SPAR VALVE ENG 2
B	4	C00359	FUEL SPAR VALVE ENG 1

———— END OF TASK ————

TASK 26-00-01-000-802

4. Engine and APU Fire Shutoff Switch Assembly Removal

A. General

- (1) This task gives instructions to remove the Engine and APU Fire Shutoff Switch Assembly.



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B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Prepare for the Removal

SUBTASK 26-00-01-865-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1
B	19	C01344	APU FIRE SW POWER
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

D. Engine and APU Fire Shutoff Switch Removal

SUBTASK 26-00-01-030-001

- (1) Loosen the four quarter turn fasteners securing the engine and APU fire control panel [1] to the frame (Figure 402).

SUBTASK 26-00-01-030-002

- (2) Slide the engine and APU fire control panel [1] carefully from the frame insert, enough to gain access to the fire shutoff switch connector.

SUBTASK 26-00-01-030-003

- (3) Disconnect the applicable electrical connector from the engine and APU fire shutoff switch [2].

SUBTASK 26-00-01-030-004

- (4) Put a protective cover on the switch connector.

SUBTASK 26-00-01-030-005

- (5) Remove the three screws holding the engine and APU fire shutoff switch [2] to the Engine and APU Fire Control Panel.

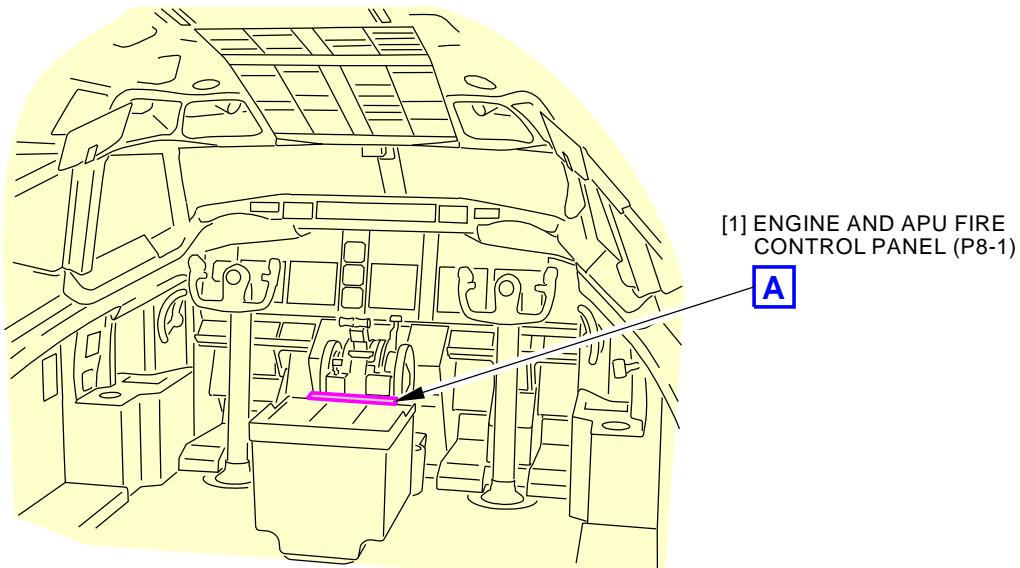
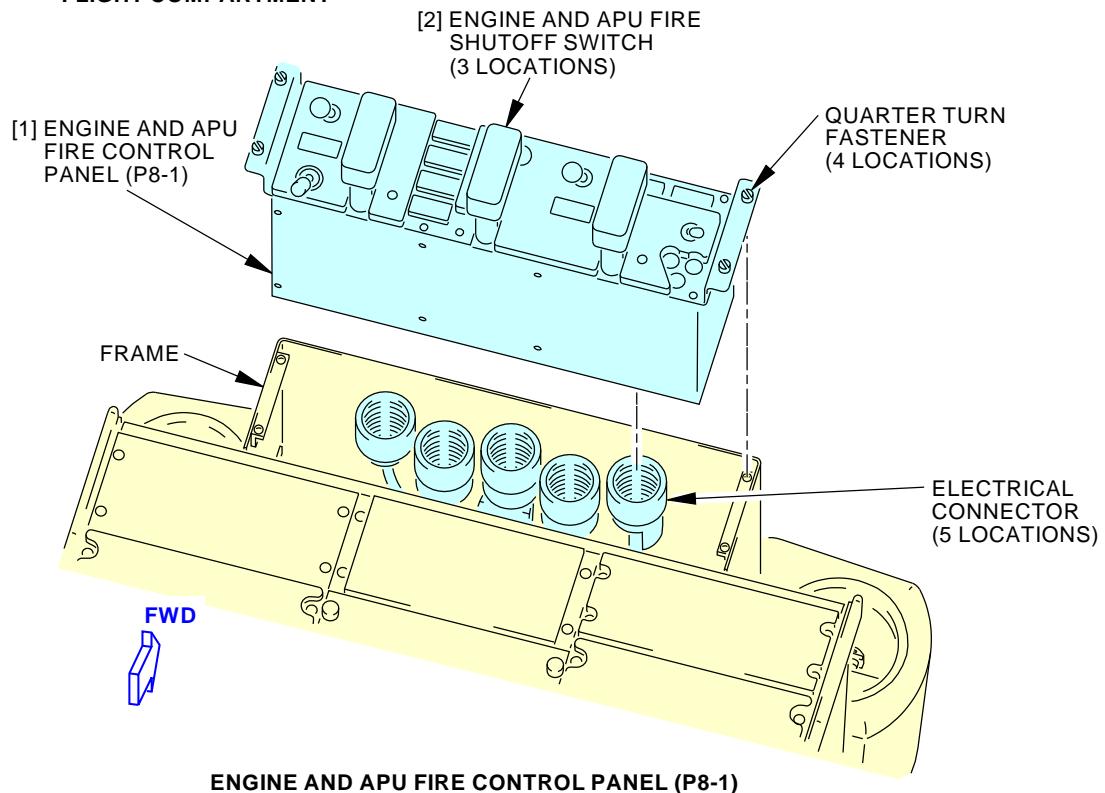
SUBTASK 26-00-01-030-006

- (6) Remove the engine and APU fire shutoff switch [2].

———— END OF TASK ————



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FLIGHT COMPARTMENT

ENGINE AND APU FIRE CONTROL PANEL (P8-1)


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Engine and APU Fire Shutoff Switch Assembly Installation
Figure 402/26-00-01-990-802

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TASK 26-00-01-400-802

5. Engine and APU Fire Shutoff Switch Assembly Installation

A. General

- (1) This task gives instructions to install the Engine and APU Fire Shutoff Switch Assembly.

B. References

Reference	Title
26-21-00-720-802	Engine Fire Switch System Shutdown Test (P/B 501)
26-22-00-720-801	APU Fire Switch System Shutdown Test (P/B 501)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Installation

SUBTASK 26-00-01-865-002

- (1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1
B	19	C01344	APU FIRE SW POWER
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

E. Engine and APU Fire Shutoff Switch Installation

SUBTASK 26-00-01-420-002

- (1) Make sure that the fire shutoff switch electrical connector is accessible for installation to the switch (Figure 402).
- (a) If the electrical connector is not accessible, carefully slide the Engine and APU Fire Control Panel out.

SUBTASK 26-00-01-420-003

- (2) Put the fire shutoff switch in its position in the engine and APU fire control panel [1].

NOTE: There are indexing pins on the switch.

SUBTASK 26-00-01-420-004

- (3) Install the three screws that hold the fire shutoff switch to the Engine and APU Fire Control Panel.

SUBTASK 26-00-01-420-005

- (4) Remove the protective cover from the switch electrical connector.

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SUBTASK 26-00-01-420-006

- (5) Examine the electrical connector for bent or broken pins, dirt or damage.
 - (a) Clean or repair the electrical connector if necessary.

SUBTASK 26-00-01-430-001

- (6) Connect the electrical connector to the engine and APU fire shutoff switch [2].

SUBTASK 26-00-01-420-007

- (7) Slide the engine and APU fire control panel [1] into the frame and secure with the four quarter-turn fasteners.

F. Electrical System Installation Test

SUBTASK 26-00-01-700-001

- (1) Do this task, as applicable: Engine Fire Switch System Shutdown Test, TASK 26-21-00-720-802 or APU Fire Switch System Shutdown Test, TASK 26-22-00-720-801

G. Put the Airplane Back to Its Usual Condition

SUBTASK 26-00-01-860-009

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1
B	19	C01344	APU FIRE SW POWER
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-00-01



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CARGO FIRE CONTROL PANEL - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Cargo Fire Control Panel Removal
 - (2) Cargo Fire Control Panel Installation.
- B. The Cargo Fire Control Panel is installed on the P8 aisle control stand in the flight compartment.

TASK 26-00-02-000-801

2. Cargo Fire Control Panel Removal

(Figure 401)

A. General

- (1) This task gives instructions to remove the Cargo Fire Control Panel.

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Prepare for the Removal

SUBTASK 26-00-02-860-001

- (1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

Circuit Breaker Panel 5, P8

Row	Col	Number	Name
---	---	C01097	ELEX PANEL LIGHTS AFT F/O

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
D	8	C00701	EMER PANEL LTG
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
F	13	C01179	INDICATOR MASTER DIM SECT 7

D. Cargo Fire Control Panel Removal

SUBTASK 26-00-02-020-005

- (1) Loosen the four quarter turn fasteners that attach the cargo fire control panel [1] to the frame.

SUBTASK 26-00-02-020-006

- (2) Slide the cargo fire control panel [1] from the frame.

EFFECTIVITY
AKS ALL

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SUBTASK 26-00-02-020-007

- (3) Tag and remove the electrical connectors.

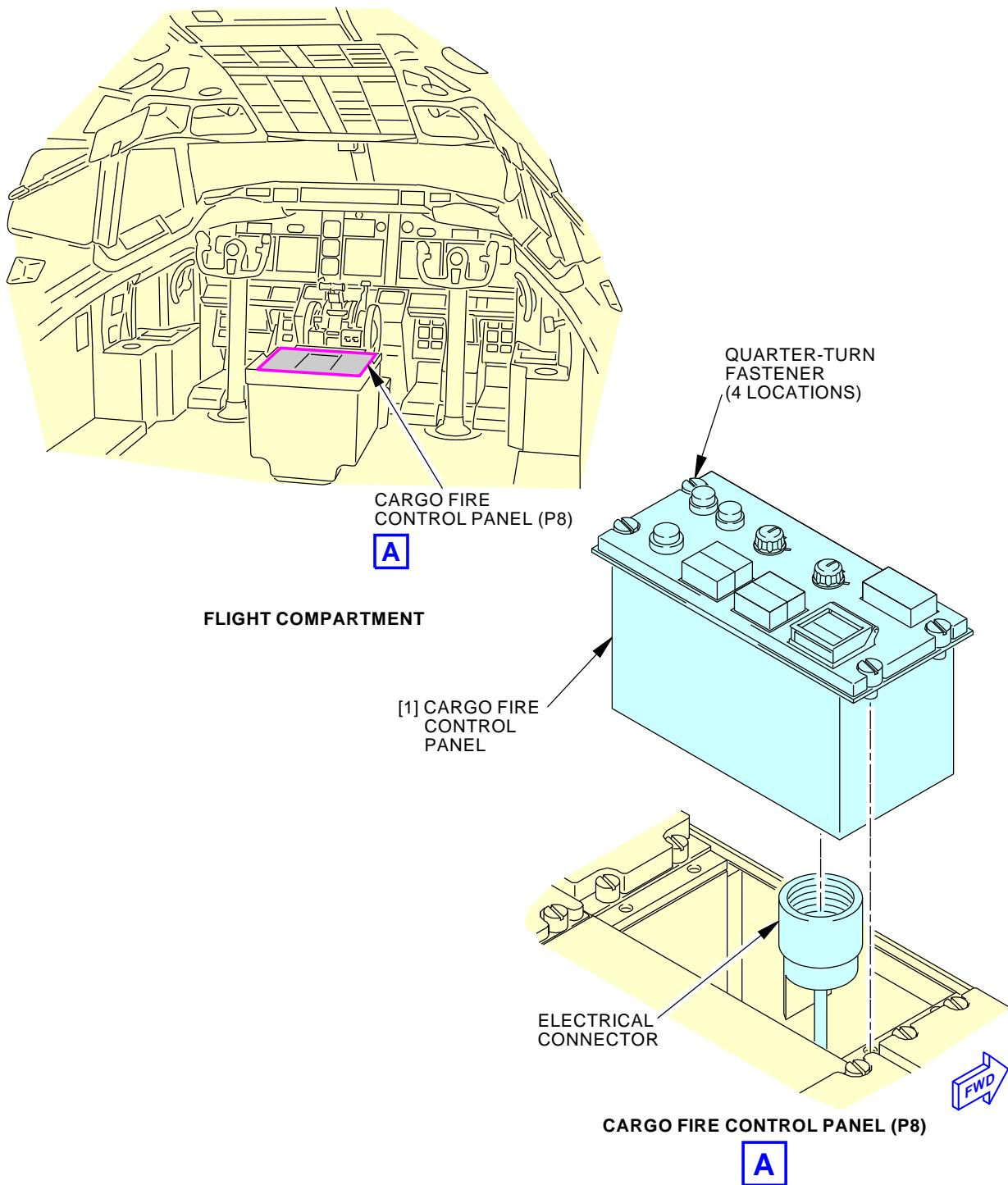
———— END OF TASK ——

EFFECTIVITY
AKS ALL

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Cargo Fire Control Panel Installation
Figure 401/26-00-02-990-801EFFECTIVITY
AKS ALL**26-00-02**

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TASK 26-00-02-400-801

3. Cargo Fire Control Panel Installation

(Figure 401)

A. General

- (1) This task gives instructions to install the Cargo Fire Control Panel.

B. References

Reference	Title
26-23-00-730-802	Cargo Fire Extinguishing Bottle Pressure Switch Circuit Test (P/B 501)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Installation

SUBTASK 26-00-02-860-002

- (1) Make sure that these circuit breakers are open and have safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

Circuit Breaker Panel 5, P8

Row	Col	Number	Name
---	---	C01097	ELEX PANEL LIGHTS AFT F/O

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
D	8	C00701	EMER PANEL LTG
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
F	13	C01179	INDICATOR MASTER DIM SECT 7

E. Cargo Fire Control Panel Installation

SUBTASK 26-00-02-420-002

- (1) Install the connectors on the fire control panel and remove the tags.

SUBTASK 26-00-02-020-008

- (2) Slide the cargo fire control panel [1] into the frame and attach with the four quarter turn fasteners.



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SUBTASK 26-00-02-860-004

- (3) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

Circuit Breaker Panel 5, P8

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
---	---	C01097	ELEX PANEL LIGHTS AFT F/O

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	8	C00701	EMER PANEL LTG
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
F	13	C01179	INDICATOR MASTER DIM SECT 7

F. Cargo Fire Control Panel Installation Test

SUBTASK 26-00-02-720-001

- (1) Push the TEST switch on the Cargo Fire Control Panel.
- Make sure the DETECTOR FAULT light stays off.
 - Make sure the red FWD and AFT fire lights come on.
 - Make sure the green FWD and AFT EXT lights come on.
 - Make sure the amber DISCH light comes on.

SUBTASK 26-00-02-720-003

- (2) Do this task: Cargo Fire Extinguishing Bottle Pressure Switch Circuit Test, TASK 26-23-00-730-802.

———— END OF TASK ————



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DETECTION - ADJUSTMENT/TEST

1. General

- A. This procedure consists of an operational test of the fire and overheat detection systems. The operational test uses the test switches on the Engine and APU Fire Control Panel, P8-1, in the flight compartment. It also uses the test switch on the Fire Detection Control Unit, M279, in the Electrical and Electronics Compartment.
- B. The Fire and Overheat Detection System consists of the following systems:
 - (1) The Engine Fire Detection System.
 - (2) The APU Fire Detection System.
 - (3) The Wheel Well, Wing, and Aft Lower Body (Compartment) Overheat Detection System.

TASK 26-10-00-710-801

2. Fire and Overheat Detection System - Operational Test

(Figure 501 or Figure 502)

A. General

- (1) The operational test makes sure that the engine, APU, and compartment fire/overheat detection systems operate correctly. The operational test uses only equipment that is installed on the airplane and it does not disturb the airplane systems. The operational test consists of these tests:
 - (a) The FIRE/OVHT test for loops A and B.
 - (b) The FIRE/OVHT test for loop A.
 - (c) The FIRE/OVHT test for loop B.
 - (d) The FAULT/INOP test for loops A and B.
 - (e) The test for an Engine 1 Detection Fault.
 - (f) The test for an Engine 2 Detection Fault.
 - (g) The test for an APU Detection Fault.
 - (h) The Air Mode Test for the APU Remote Control Panel, P28.
- (2) This test will do a check of all the systems affected by the detection test switches on the Engine and APU Fire Control Panel. In other words, when you do the detection tests, you will look for every indication that is affected by the test.
- (3) A brief system description is included at the end of the procedure, refer to Table 501, Table 502, Table 503.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
32-09-00-860-801	Put the Airplane in the Air Mode (P/B 201)
32-09-00-860-802	Return the Airplane to the Ground Mode (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right

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(Continued)

Zone Area

211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Operational Test

SUBTASK 26-10-00-860-001

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 26-10-00-860-002

- (2) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6

SUBTASK 26-10-00-860-003

- (3) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

SUBTASK 26-10-00-860-004

- (4) Make sure the MASTER CAUTION lights and the OVHT/FIRE lights on the Pilots Glareshield, P7, are not on.

E. Do the FIRE/OVHT Test for Loops A and B

SUBTASK 26-10-00-710-001

- (1) Make sure the two OVHT DET switches on the Engine and APU Fire Control Panel, P8-1, are in the NORMAL positions.

SUBTASK 26-10-00-710-002

- (2) Move and hold the TEST switch on the Engine and APU Fire Control Panel to the OVHT/FIRE position.

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- (a) On the Engine and APU Fire Control Panel, make sure these lights come on:
 - 1) Engine 1 Fire Handle light (Red).
 - 2) Engine 2 Fire Handle light (Red).
 - 3) APU Fire Handle light (Red).
 - 4) ENG 1 OVERHEAT light (Amber).
 - 5) ENG 2 OVERHEAT light (Amber).
- (b) On the Pilot's Glareshield, P7, make sure these lights come on:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The Captain's and First Officer's FIRE WARN lights (Red).
 - 3) The OVHT/DET light (Amber).
- (c) Make sure you hear the bell in the Aural Warning Module, M315, in the flight compartment.

AKS 018, 020-999

- (d) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, come on.

AKS ALL

- (e) Make sure the APU fire warning horn in the right main wheel well comes on.
- (f) Make sure the red light, on the APU remote control panel, P28, in the right main wheel well flashes on and off at approximately one cycle per second.
- (g) Push the BELL CUTOUT switch on the Engine and APU Fire Control Panel, P8-1.

NOTE: If you push the HORN CUTOUT switch on the P28 panel, or either of the FIRE WARN lights on the P7 panel, the same conditions will occur. The BELL CUTOUT switch, the HORN CUTOUT switch, and the FIRE WARN switch cause the same resets but from different locations.

- 1) Make sure you do not hear the bell in the Aural Warning Module, M315, in the flight compartment.
- 2) Make sure the two FIRE WARN lights on the Pilot's Glareshield, P7, go off.
- 3) Make sure the APU fire warning horn in the right main wheel well stops.
- 4) Make sure the red light on the P28 panel in the right main wheel well comes on and does not flash.

SUBTASK 26-10-00-710-003

- (3) Release the TEST switch on the Engine and APU Fire Control Panel.
 - (a) On the Engine and APU Fire Control Panel, make sure these lights go off:
 - 1) Engine 1 Fire Handle light (Red).
 - 2) Engine 2 Fire Handle light (Red).
 - 3) APU Fire Handle light (Red).
 - 4) ENG 1 OVERHEAT light (Amber).
 - 5) ENG 2 OVERHEAT light (Amber).
 - (b) On the Pilot's Glareshield, P7, make sure these lights go off:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The Captain's and First Officer's FIRE WARN lights (Red).

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- 3) The OVHT/DET light (Amber).

AKS 018, 020-999

- (c) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, turn off.

AKS ALL

F. Do the FIRE/OVHT Test for Loop A

SUBTASK 26-10-00-710-004

- (1) Move the two OVHT DET switches on the Engine and APU Fire Control Panel, P8-1, to the A positions.

SUBTASK 26-10-00-710-005

- (2) Move and hold the TEST switch on the Engine and APU Fire Control Panel to the OVHT/FIRE position.
 - (a) On the Engine and APU Fire Control Panel, make sure these lights come on:
 - 1) Engine 1 Fire Handle light (Red).
 - 2) Engine 2 Fire Handle light (Red).
 - 3) APU Fire Handle light (Red).
 - 4) ENG 1 OVERHEAT light (Amber).
 - 5) ENG 2 OVERHEAT light (Amber).
 - (b) On the Pilot's Glareshield, P7, make sure these lights come on:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The Captain's and First Officer's FIRE WARN lights (Red).
 - 3) The OVHT/DET light (Amber).
 - (c) Make sure the bell in the Aural Warning Module, M315, comes on.

AKS 018, 020-999

- (d) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, come on.

AKS ALL

- (e) Make sure the APU fire warning horn in the right main wheel well comes on.
- (f) Make sure the red light on the APU remote control panel, P28, in the right main wheel well flashes on and off at approximately one cycle per second.

SUBTASK 26-10-00-710-006

- (3) Release the TEST switch on the Engine and APU Fire Control Panel.

AKS 018, 020-999

- (a) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, turn off.

AKS ALL

G. Do the FIRE/OVHT Test for Loop B

SUBTASK 26-10-00-710-007

- (1) Move the two OVHT DET switches on the Engine and APU Fire Control Panel, P8-1, to the B positions.

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SUBTASK 26-10-00-710-008

- (2) Move and hold the TEST switch on the Engine and APU Fire Control Panel to the OVHT/FIRE position.
 - (a) On the Engine and APU Fire Control Panel, make sure these lights come on:
 - 1) Engine 1 Fire Handle light (Red).
 - 2) Engine 2 Fire Handle light (Red).
 - 3) APU Fire Handle light (Red).
 - 4) ENG 1 OVERHEAT light (Amber).
 - 5) ENG 2 OVERHEAT light (Amber).
 - (b) On the Pilot's Glareshield, P7, make sure these lights come on:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The Captain's and First Officer's FIRE WARN lights (Red).
 - 3) The OVHT/DET light (Amber).
 - (c) Make sure the bell in the Aural Warning Module, M315, comes on.

AKS 018, 020-999

- (d) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, come on.

AKS ALL

- (e) Make sure the APU fire warning horn in the right main wheel well comes on.
- (f) Make sure the red light on the APU remote control panel, P28, in the right main wheel well flashes on and off at approximately one cycle per second.

SUBTASK 26-10-00-710-009

- (3) Release the TEST switch on the Engine and APU Fire Control Panel.

AKS 018, 020-999

- (a) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, turn off.

AKS ALL

H. Do the FAULT/INOP Test for Loops A and B

SUBTASK 26-10-00-710-010

- (1) Move the two OVHT DET switches on the Engine and APU Fire Control Panel, P8-1, to the NORMAL positions.

SUBTASK 26-10-00-710-011

- (2) Move and hold the TEST switch on the Engine and APU Fire Control Panel to the FAULT/INOP position.
 - (a) On the Engine and APU Fire Control Panel, make sure these lights come on:
 - 1) FAULT light (Amber).
 - 2) APU DET INOP light (Amber).
 - (b) On the Pilot's Glareshield, P7, make sure these lights come on:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The OVHT/DET light (Amber).

EFFECTIVITY	AKS ALL
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- (c) On the Engine and APU Fire Detection Control Unit, M279, on the E2-2 shelf in the Electrical and Electronics Compartment, make sure these lights come on:
- 1) ENGINE 1 LOOP A (Amber).
 - 2) ENGINE 1 LOOP B (Amber).
 - 3) ENGINE 2 LOOP A (Amber).
 - 4) ENGINE 2 LOOP B (Amber).
 - 5) APU (Amber).
 - 6) The three FAULT CODE lights are ON-ON-ON.

SUBTASK 26-10-00-710-012

- (3) Release the TEST switch on the Engine and APU Fire Control Panel.
- (a) On the Engine and APU Fire Control Panel, make sure these lights are off:
 - 1) FAULT light (Amber).
 - 2) APU DET INOP light (Amber).
 - (b) On the Pilot's Glareshield, P7, make sure these lights are off:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The OVHT/DET light (Amber).
 - (c) On the Engine and APU Fire Detection Control Unit, M279, in the Electrical and Electronics Compartment, make sure these lights are off :
 - 1) ENGINE 1 LOOP A (Amber).
 - 2) ENGINE 1 LOOP B (Amber).
 - 3) ENGINE 2 LOOP A (Amber).
 - 4) ENGINE 2 LOOP B (Amber).
 - 5) APU (Amber).
 - 6) The three FAULT CODE lights are "OFF-OFF-OFF".

I. Do the Test for an Engine 1 Detection Fault

SUBTASK 26-10-00-860-005

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

- (a) On the Engine and APU Fire Control Panel, P8-1, make sure the FAULT light (Amber) is on.
- (b) On the Fire Detection Control Module, M279, in the Electrical and Electronics Compartment, make sure these lights come on:
 - 1) ENGINE 1 LOOP A (Amber).
 - 2) ENGINE 1 LOOP B (Amber).
 - 3) The three FAULT CODE lights are OFF-OFF-ON.



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SUBTASK 26-10-00-860-006

- (2) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

Row Col Number Name

A 24 C00405 FIRE PROTECTION DETECTION ENG 1

- (a) On the Engine and APU Fire Control Module, make sure the FAULT light (Amber) is off.
(b) On the Fire Detection Control Module, in the Electrical and Electronics Compartment, make sure these lights go off:
 1) ENGINE 1 LOOP A (Amber).
 2) ENGINE 1 LOOP B (Amber).
 3) The three FAULT CODE lights are OFF-OFF-OFF.

J. Do the Test for an Engine 2 Detection Fault

SUBTASK 26-10-00-860-007

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

Row Col Number Name

A 22 C00407 FIRE PROTECTION DETECTION ENG 2

- (a) On the Engine and APU Fire Control Panel, P8-1, make sure the FAULT light (Amber) is on.
(b) On the Fire Detection Control Module, M279, in the Electrical and Electronics Compartment, make sure these lights come on:
 1) ENGINE 2 LOOP A (Amber).
 2) ENGINE 2 LOOP B (Amber).
 3) The three FAULT CODE lights are OFF-OFF-ON.

SUBTASK 26-10-00-860-008

- (2) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

Row Col Number Name

A 22 C00407 FIRE PROTECTION DETECTION ENG 2

- (a) On the Engine and APU Fire Control Panel, make sure the FAULT light (Amber) is off.
(b) On the Fire Detection Control Module, in the Electrical and Electronics Compartment, make sure these lights go off(Figure 501 or Figure 502).
 1) ENGINE 2 LOOP A (Amber).
 2) ENGINE 2 LOOP B (Amber).
 3) The three FAULT CODE lights are OFF-OFF-OFF.

K. Do the Test for an APU Detection Fault

SUBTASK 26-10-00-860-009

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

Row Col Number Name

A 23 C00403 FIRE PROTECTION DETECTION APU

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- (a) On the Pilot's Glareshield, P7, make sure the Captain's and First Officer's MASTER CAUTION lights (Amber) are on.
- (b) On the Pilot's Glareshield, make sure the OVHT/DET light (Amber) is on.
- (c) On the Engine and APU Fire Control Panel, P8-1, make sure the APU DET INOP light (Amber) is on.
- (d) On the Fire Detection Control Module, M279, in the Electrical and Electronics Compartment, make sure the APU light (Amber) comes on.
- (e) On the Fire Detection Control Module, make sure the three FAULT CODE lights are OFF-OFF-ON.

SUBTASK 26-10-00-860-010

- (2) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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A	23	C00403	FIRE PROTECTION DETECTION APU
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- (a) On the Pilot's Glareshield, make sure the Captain's and First Officer's MASTER CAUTION lights (Amber) are off.
- (b) On the Pilot's Glareshield, make sure the OVHT/DET light (Amber) is off.
- (c) On the Engine and APU Fire Control Panel, make sure the APU DET INOP light (Amber) is off.
- (d) On the Fire Detection Control Module, in the Electrical and Electronics Compartment, make sure the APU light (Amber) is off.
- (e) On the Fire Detection Control Module, make sure the three FAULT CODE lights are OFF-OFF-OFF.

L. Do the Air Mode Test for the APU Remote Control Panel, P28

SUBTASK 26-10-00-860-011

- (1) Do this task: Put the Airplane in the Air Mode, TASK 32-09-00-860-801.

SUBTASK 26-10-00-710-013

- (2) Move and hold the TEST switch on the Engine and APU Fire Control Panel, P8-1, to the OVHT/FIRE position.

NOTE: Other indications will occur. Ignore all the indications that are not listed in the steps that follow.

- (a) Make sure the APU fire warning horn in the right main wheel well does not come on.
- (b) Make sure the red light on the APU remote control panel, P28, in the right main wheel well flashes on and off at approximately one cycle per second.
- (c) Push the HORN CUTOFF switch on the APU remote control panel.
- (d) Make sure the red light on the APU remote control panel stays on and does not flash.

SUBTASK 26-10-00-710-014

- (3) Release the TEST switch on the Engine and APU Fire Control Panel.

SUBTASK 26-10-00-860-012

- (4) Do this task: Return the Airplane to the Ground Mode, TASK 32-09-00-860-802.



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M. Put the Airplane Back to its Usual Condition

SUBTASK 26-10-00-860-013

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
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N. System Description

SUBTASK 26-10-00-800-001

- (1) The Engine and APU Fire Detection Systems are monitored and controlled by the Fire Detection Control Module, M279, in the Electrical and Electronics Compartment. The Compartment Overheat System is monitored and controlled by the Compartment Overheat Detection Controller, M237, in the Electrical and Electronics Compartment. The Module and the Controller send fire, overheat, and fault signals to the Engine and APU Fire Control Panel, P8-1, and the Pilot's Glareshield, P7, in the flight compartment. The module also sends an APU fire signal to the APU Remote Control Panel, P28, in the right main wheel well.

- (a) The Engine and APU Fire, Overheat, and Fault Warning Indications are as follows:

Table 501/26-10-00-993-802

System	Condition	Indication	Location
ENGINE 1	FIRE	Engine 1 Fire Handle Light (red)	P8-1
		MASTER CAUTION Lights (amber)	P7
		FIRE WARN Lights (red)	P7
		Flight Compartment Fire Bell	M315
ENGINE 2	FIRE	Engine 2 Fire Handle Light (red)	P8-1
		MASTER CAUTION Lights (amber)	P7
		FIRE WARN Lights (red)	P7
		Flight Compartment Fire Bell	M315
ENGINE 1	OVER-HEAT	ENG 1 OVERHEAT Light (amber)	P8-1
		MASTER CAUTION Lights (amber)	P7
		OVHT/DET Light (amber)	P7
ENGINE 2	OVER-HEAT	ENG 2 OVERHEAT Light (amber)	P8-1
		MASTER CAUTION Lights (amber)	P7
		OVHT/DET Light (amber)	P7
ENGINE 1	FAULT	FAULT Light (amber)	P8-1
		ENGINE NO. 1 LOOP A Light (amber)	M279
		ENGINE NO. 1 LOOP B Light (amber)	M279

EFFECTIVITY
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Table 501/26-10-00-993-802 (Continued)

System	Condition	Indication	Location
ENGINE 2	FAULT	FAULT Light (amber) ENGINE NO. 2 LOOP A Light (amber) ENGINE NO. 2 LOOP B Light (amber)	P8-1 M279 M279
APU	FIRE	APU Fire Handle Light (red) MASTER CAUTION Lights (amber) FIRE WARN Lights (red) Flight Compartment Fire Bell Right Wheel Well APU Fire Warning Horn APU Remote Fire Light (red)	P8-1 P7 P7 M315 M277 P28
APU	OVER-HEAT	MASTER CAUTION Light (amber) OVHT/DET Light (amber)	P7 P7
APU	FAULT	APU DET INOP Light (amber) APU Light (amber)	P8-1 M279

- (b) The Engine Fire Detection system has dual sensors in each loop and operates in "AND" logic. Therefore, both loops must sense a fire or a fault before the fire or fault indication is shown. The following table is a summary of the indications that will be given for the various conditions of the sensing loops:

Table 502/26-10-00-993-803

LOOP 1	LOOP 2	INDICATIONS
NORMAL	NORMAL	NONE
NORMAL	INOP	NONE
NORMAL	FAULT	NONE
NORMAL	FIRE	NONE
INOP	NORMAL	NONE
INOP	INOP	NONE
INOP	FAULT	FAULT
INOP	FIRE	FIRE
FAULT	NORMAL	NONE
FAULT	INOP	FAULT
FAULT	FAULT	FAULT
FAULT	FIRE	FIRE

EFFECTIVITY
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Table 502/26-10-00-993-803 (Continued)

LOOP 1	LOOP 2	INDICATIONS
FIRE	NORMAL	NONE
FIRE	INOP	FIRE
FIRE	FAULT	FIRE
FIRE	FIRE	FIRE

- (c) The following table shows all the fire, overheat, and fault indications in the flight compartment. These are the indications that will occur when the OVHT DET switches are in the normal position and you set the TEST switch to the FIRE/OVHT position, then to the NORMAL position, then to the FAULT INOP position, and then to the NORMAL position:

Table 503/26-10-00-993-804

INDICATOR	LOC	FIRE/ OVHT	NORMAL	FAULT/ INOP	NORMAL
Engine "1" Light	P8-1	ON	OFF	OFF	OFF
Engine "2" Light	P8-1	ON	OFF	OFF	OFF
"APU" Light	P8-1	ON	OFF	OFF	OFF
"ENG 1 OVHT" Light	P8-1	ON	OFF	OFF	OFF
"ENG 2 OVHT" Light	P8-1	ON	OFF	OFF	OFF
"WHEEL WELL" Light	P8-1	ON	OFF	OFF	OFF
"APU DET INOP" Light	P8-1	OFF	OFF	ON	OFF
"FAULT" Light	P8-1	OFF	OFF	ON	OFF
"FIRE WARN" Light *[1]	P7	ON	OFF	OFF	OFF
"MASTER CAUTION" Light	P7	ON	*[2]	ON	*[2]
"OVHT/DET" Light	P7	ON	*[2]	ON	*[2]
Flight Compt Bell *[1]	M315	ON	OFF	OFF	OFF
Wheel Well Bell *[1]	M277	ON	OFF	OFF	OFF
Remote Fire Light *[1]	P28	ON	OFF	OFF	OFF

*[1] Reset by pulling the "BELL CUTOUT" switch or by pushing the "FIRE/WARN" light, or by pushing the "HORN CUTOUT" switch on the P28 panel.

*[2] Reset by pushing the "MASTER/CAUTION" light.

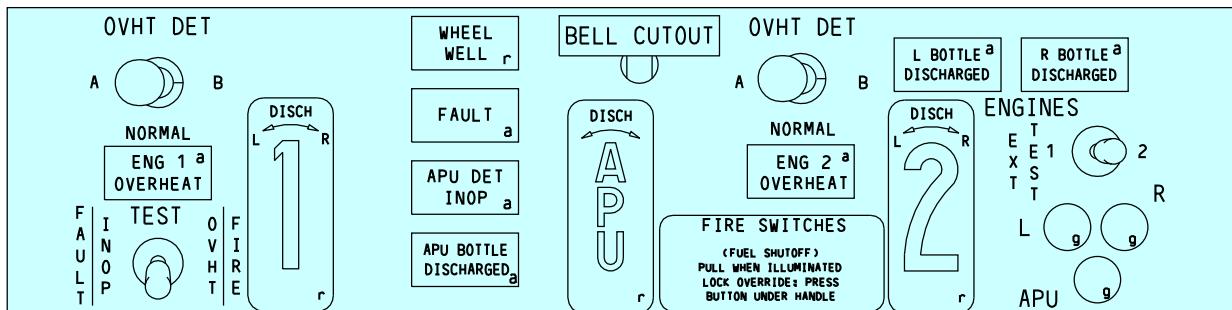
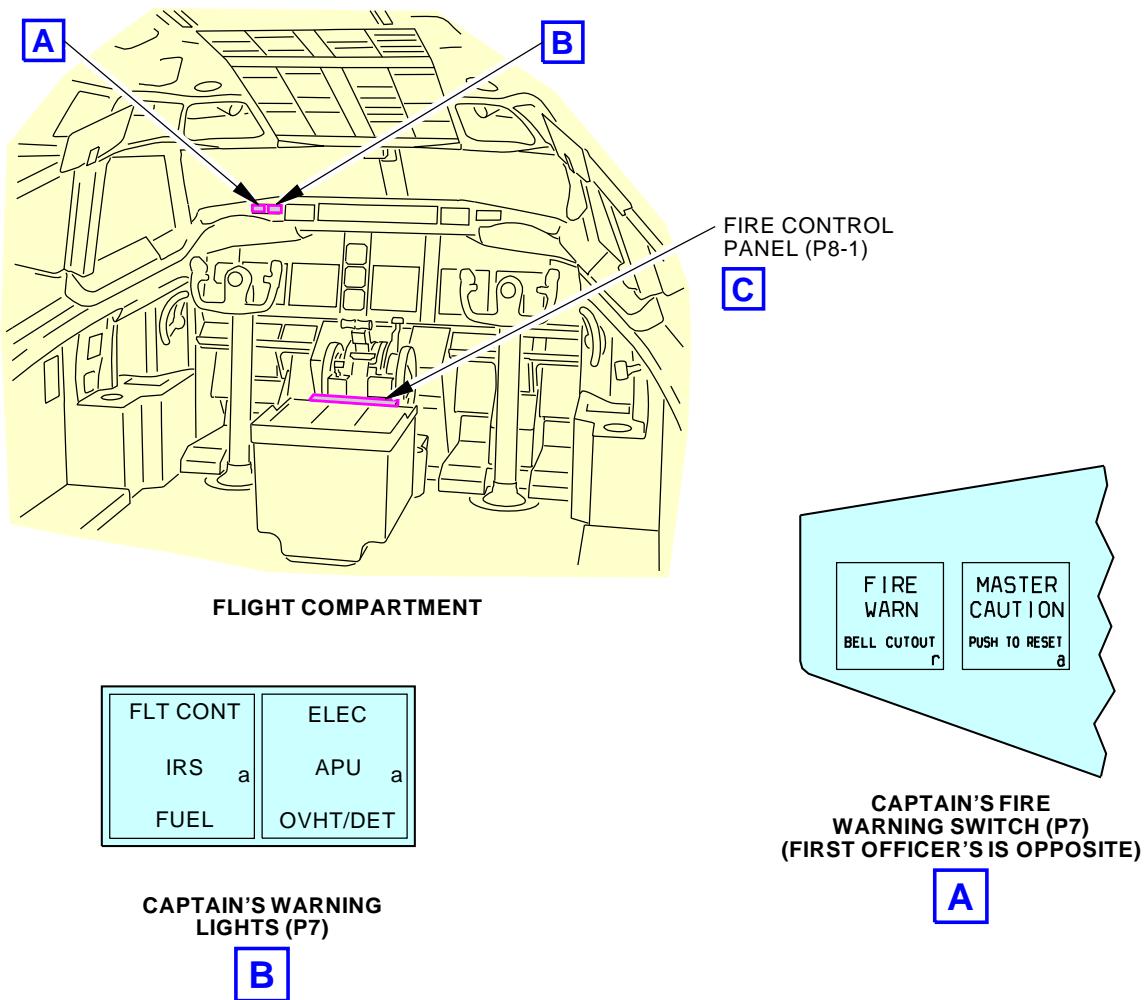
———— END OF TASK ————

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FIRE CONTROL PANEL (P8-1)

C

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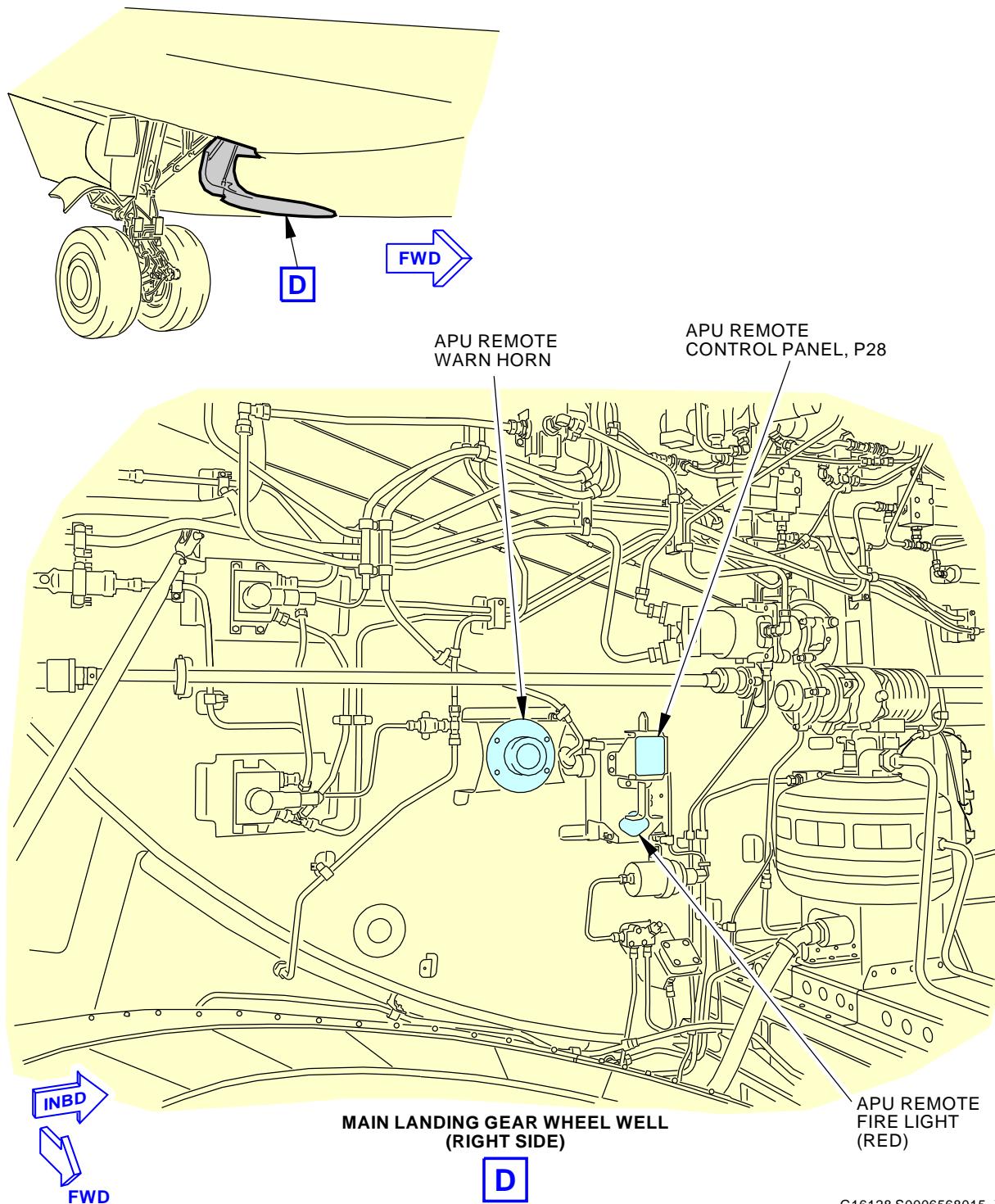
Auxiliary Power Unit (APU) Fire Detection Test
Figure 501/26-10-00-990-801 (Sheet 1 of 2)

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Auxiliary Power Unit (APU) Fire Detection Test
Figure 501/26-10-00-990-801 (Sheet 2 of 2)

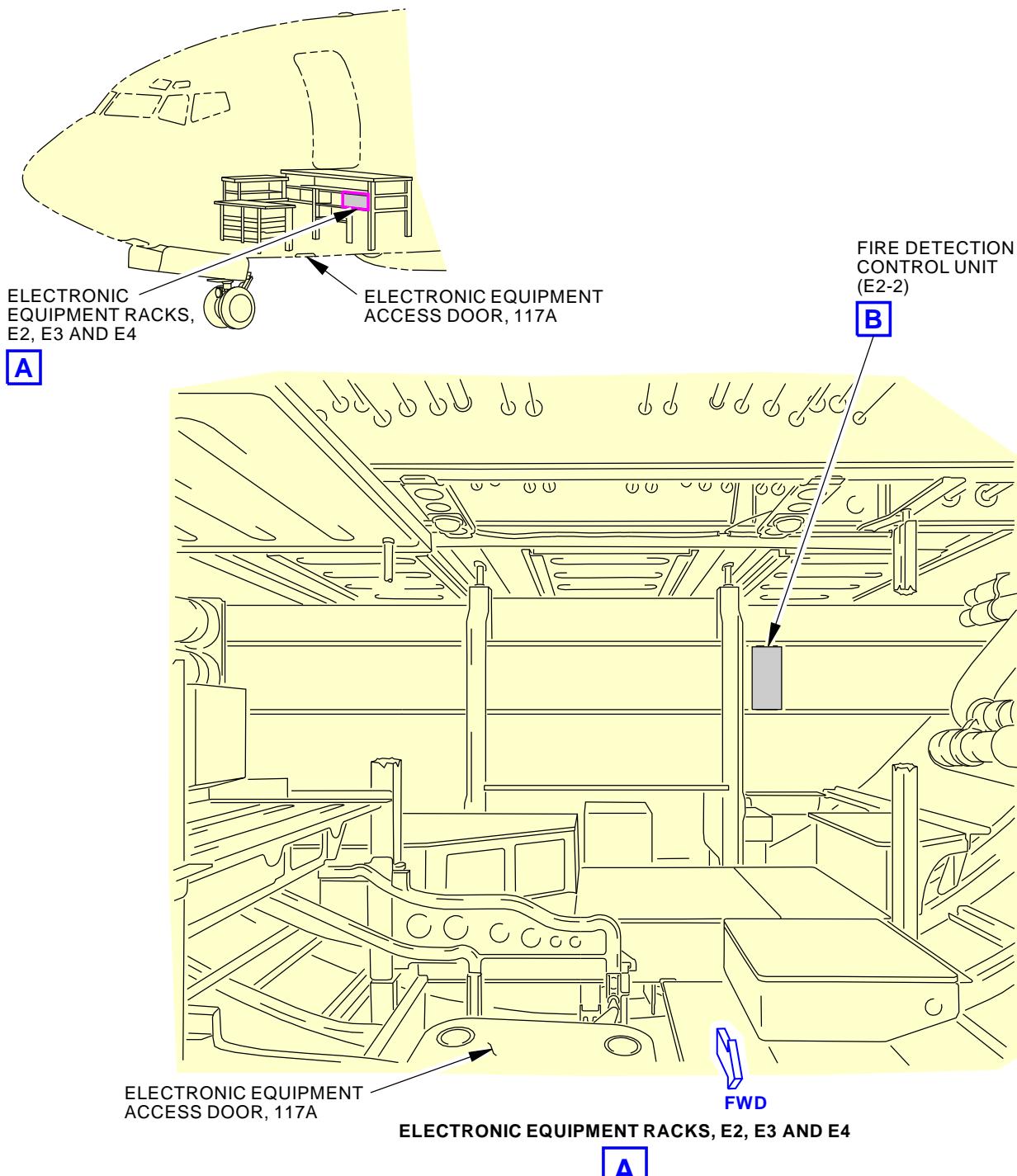
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Engine and APU Fire Detection Control Unit Installation
Figure 502/26-10-00-990-802 (Sheet 1 of 2)

EFFECTIVITY
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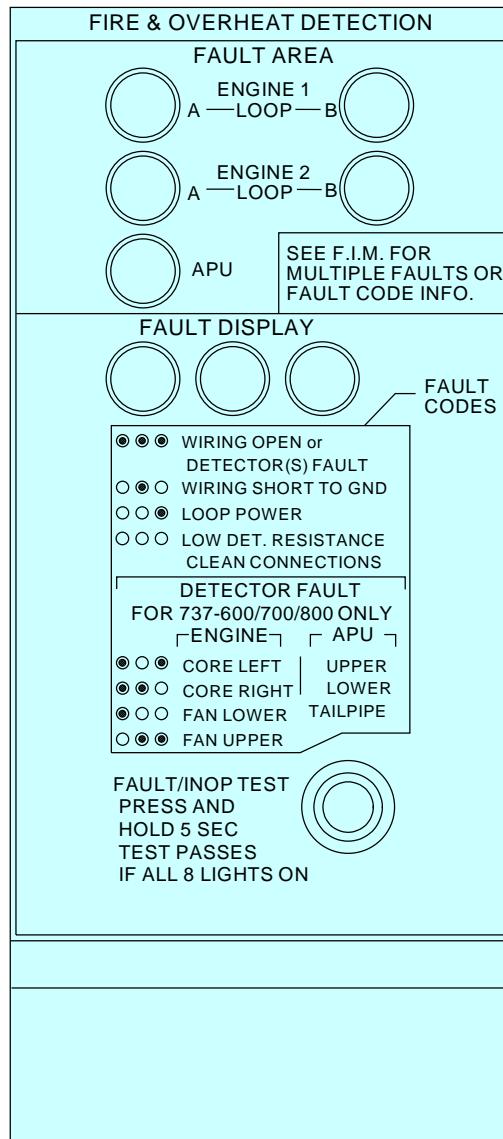
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[1] FIRE DETECTION CONTROL UNIT

B

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Engine and APU Fire Detection Control Unit Installation
Figure 502/26-10-00-990-802 (Sheet 2 of 2)

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ENGINE AND APU FIRE DETECTION CONTROL MODULE, M279 - MAINTENANCE PRACTICES

1. **General**

- A. This procedure has these tasks:
- (1) Engine and APU fire detection control module - deactivation.
 - (2) Engine and APU fire detection control module - activation.

TASK 26-10-01-040-801

2. **Engine and APU Fire Detection Control Module - Deactivation**

A. **General**

- (1) This task will deactivate the engine and APU fire detection control module, M279.

B. **Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left

C. **Procedure**

SUBTASK 26-10-01-020-003

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

D. **Engine and APU Fire Detection Control Module - Tryout**

NOTE: This tryout is to make sure that the engine and APU fire detection control module is in a zero energy state.

SUBTASK 26-10-01-210-001

- (1) On the Engine and APU Fire Control Panel, P8-1, make sure that the FAULT light (Amber) is on.

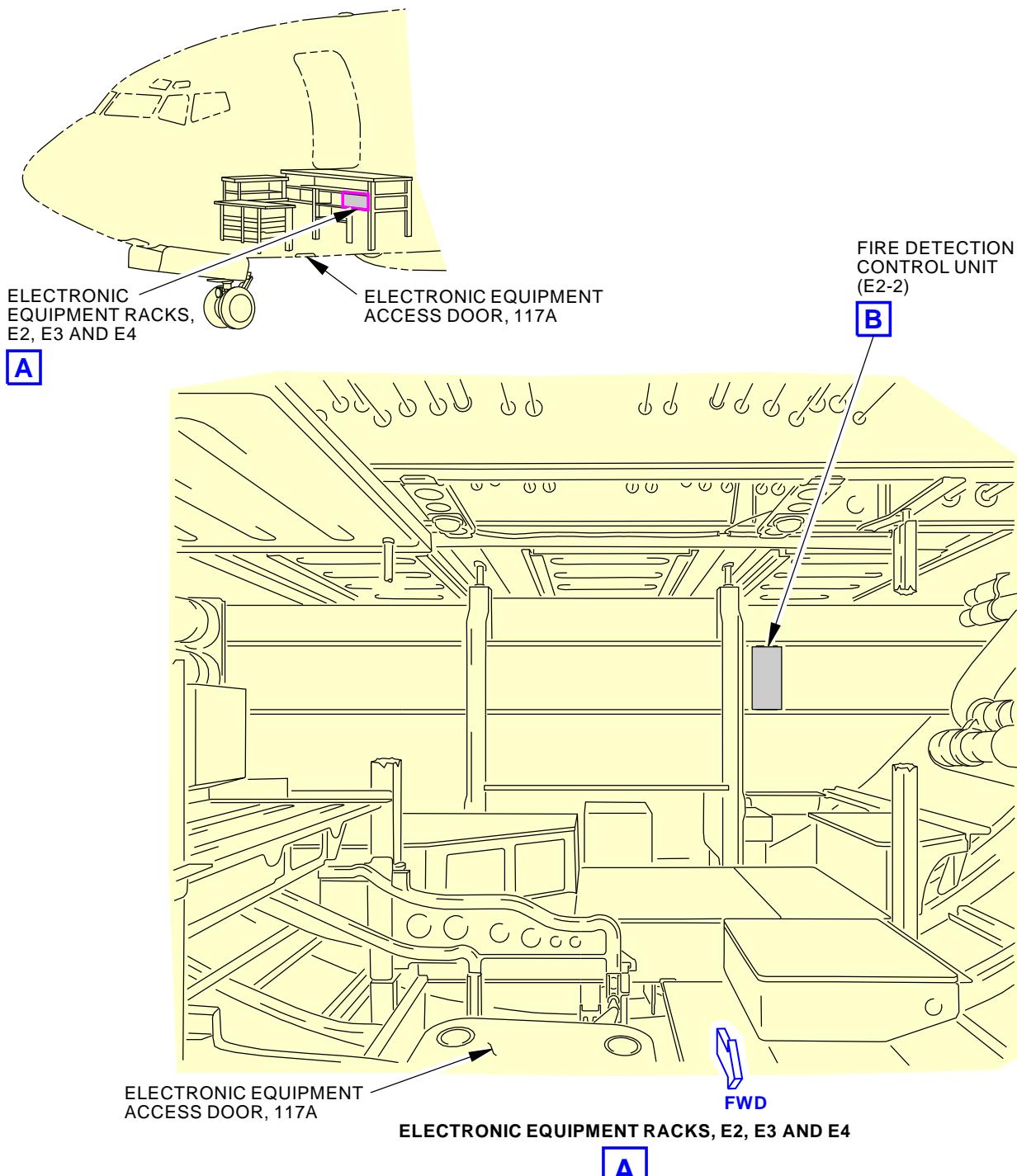
SUBTASK 26-10-01-210-002

- (2) On the Fire Detection Control Module, M279, in the Electrical and Electronics Compartment, make sure that these lights come on:
 - (a) ENGINE 1 LOOP A (Amber).
 - (b) ENGINE 1 LOOP B (Amber).
 - (c) The three FAULT CODE lights are OFF-OFF-ON

———— END OF TASK ————



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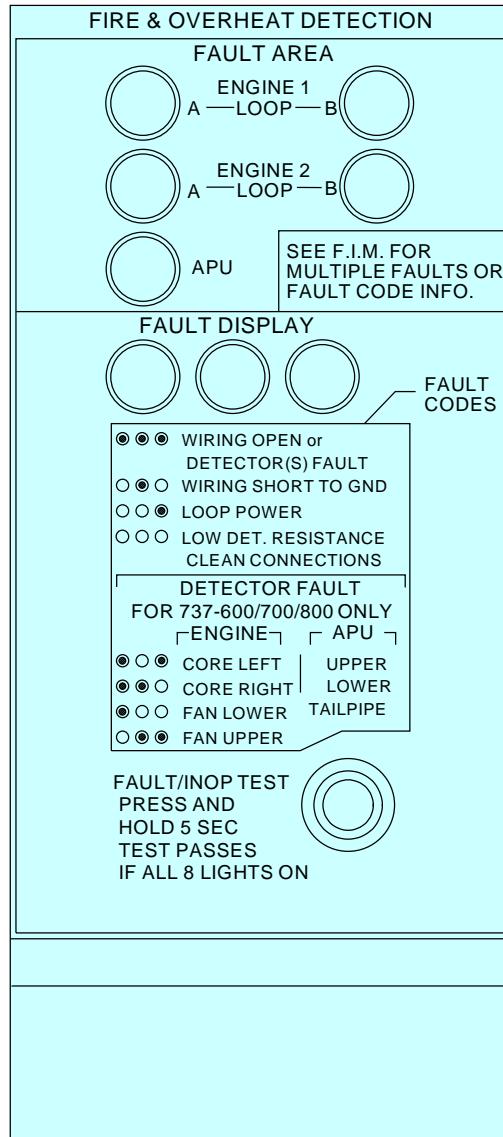
**Engine and APU Fire Detection Control Module
Figure 201/26-10-01-990-802 (Sheet 1 of 2)**

 EFFECTIVITY
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[1] FIRE DETECTION CONTROL UNIT

B

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Engine and APU Fire Detection Control Module
Figure 201/26-10-01-990-802 (Sheet 2 of 2)

EFFECTIVITY
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TASK 26-10-01-440-801

3. Engine and APU Fire Detection Control Module - Activation

(Figure 201)

A. General

- (1) This task will activate the engine and APU fire detection control module.

B. Location Zones

Zone	Area
-------------	-------------

117	Electrical and Electronics Compartment - Left
-----	---

C. Procedure

SUBTASK 26-10-01-420-002

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

———— END OF TASK ————

EFFECTIVITY
AKS ALL

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ENGINE AND APU FIRE DETECTION CONTROL MODULE, M279 - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the Engine and APU Fire Detection Control Module (M279).
 - (2) An installation of the Engine and APU Fire Detection Control Module.
- B. The Engine and APU Fire Detection Control Module is installed on the E2-2 shelf in the electronic equipment compartment.

TASK 26-10-01-000-801

2. Engine and APU Fire Detection Module Removal

(Figure 401)

A. General

- (1) This task gives instructions to remove the Engine and APU Fire Detection Module.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 26-10-01-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-10-01-010-004

- (2) Open this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

F. Engine and APU Fire Detection Module Removal.

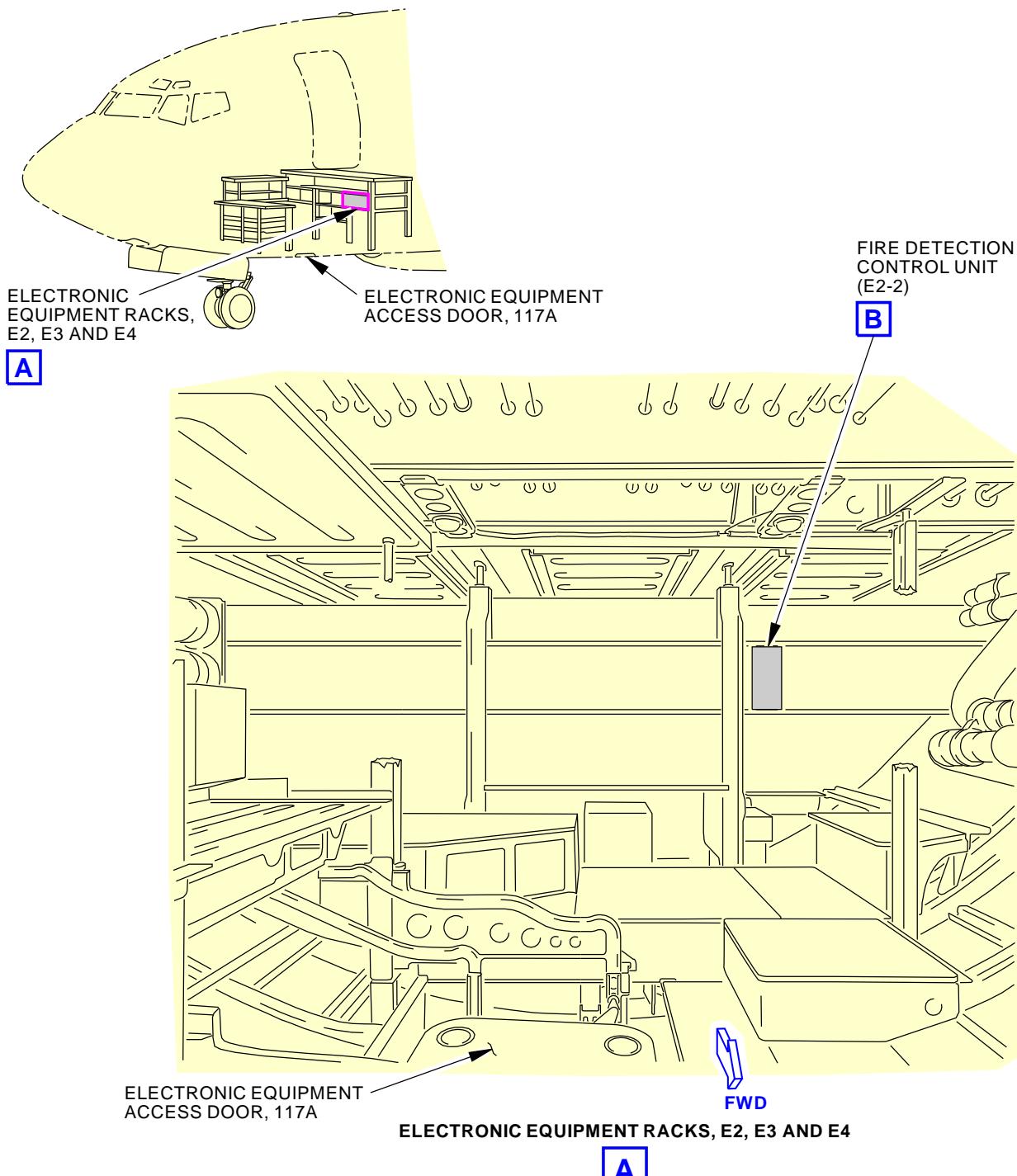
SUBTASK 26-10-01-020-002

- (1) To remove the fire detection control unit [1], do this task: E/E Box Removal, TASK 20-10-07-000-801.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

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Engine and APU Fire Detection Control Unit Installation
Figure 401/26-10-01-990-801 (Sheet 1 of 2)

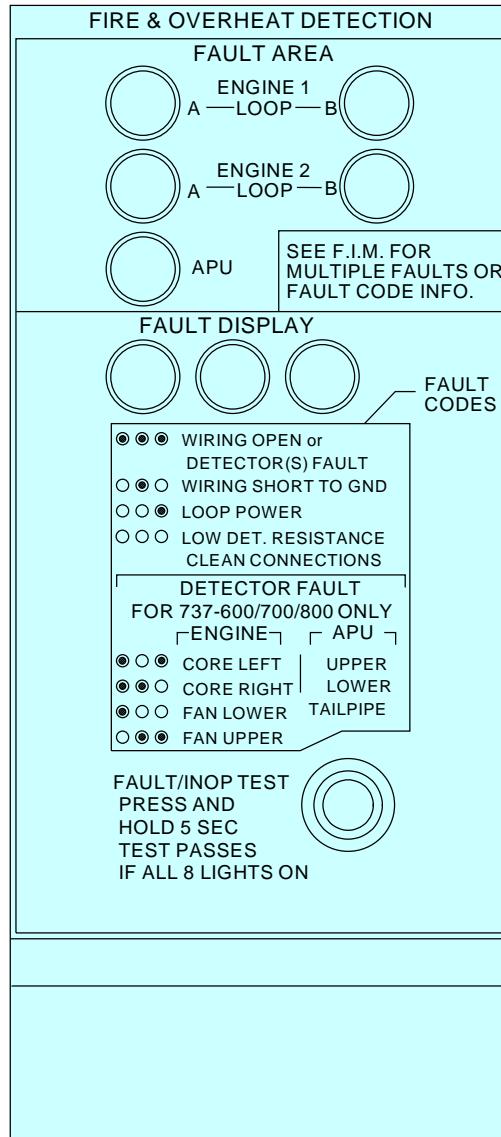
 EFFECTIVITY
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[1] FIRE DETECTION CONTROL UNIT

B

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Engine and APU Fire Detection Control Unit Installation
Figure 401/26-10-01-990-801 (Sheet 2 of 2)

EFFECTIVITY
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TASK 26-10-01-400-801

3. Engine and APU Fire Detection Module Installation

(Figure 401)

A. General

- (1) This task gives instructions to install the Engine and APU Fire Detection Module.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
26-11-00-710-801	Engine Fire Detection - Operational Test (P/B 501)
26-15-00-710-801	APU Fire Detection - Operational Test (P/B 501)

C. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Engine and APU Fire Detection Control Module Installation

SUBTASK 26-10-01-420-001

- (1) To install the module, do this task: E/E Box Installation, TASK 20-10-07-400-801.

F. Engine and APU Fire Detection Control Unit Installation Test

SUBTASK 26-10-01-860-003

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-10-01-710-001

- (2) Do this task: Engine Fire Detection - Operational Test, TASK 26-11-00-710-801.

SUBTASK 26-10-01-710-002

- (3) Do this task: APU Fire Detection - Operational Test, TASK 26-15-00-710-801.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 26-10-01-010-003

- (1) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

———— END OF TASK ————



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ENGINE FIRE DETECTION - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Engine fire detection - deactivation.
 - (2) Engine fire detection - activation.

TASK 26-11-00-040-801

2. Engine Fire Detection - Deactivation

A. General

- (1) This task will deactivate the engine fire detection system.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Procedure

SUBTASK 26-11-00-020-002

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

D. Engine Fire Detection - Tryout

NOTE: This tryout is to make sure that the engine fire detection system is in a zero energy state.

SUBTASK 26-11-00-210-001

- (1) Move and hold the TEST switch on the Engine and APU Fire Control Panel to the OVHT/FIRE position.
 - (a) On the Engine and APU Fire Control Panel, make sure that none of these lights come on:
 - 1) Engine 1 Fire Handling light.
 - 2) Engine 2 Fire Handling light.
 - 3) ENG 1 OVERHEAT light.
 - 4) ENG 2 OVERHEAT light.
 - (b) On the Pilot's Glareshield, P7, make sure that none of these lights come on:
 - 1) The Captain's and First Officer's MASTER CAUTION lights.
 - 2) The Captain's and First Officer's FIRE WARN lights.
 - 3) The OVHT/DET light.
 - (c) Make sure that the flight compartment fire bell in the Aural Warning Module, M315, does not come on.

EFFECTIVITY	AKS ALL
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SUBTASK 26-11-00-210-002

- (2) Release the TEST switch on the Engine and APU Fire Control Panel.

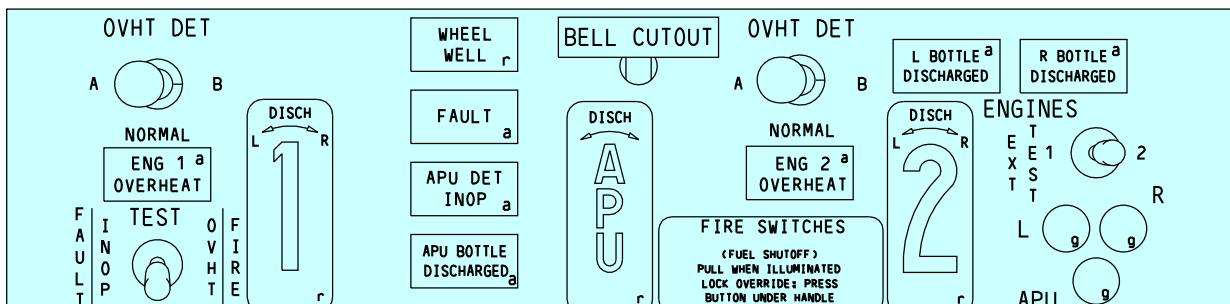
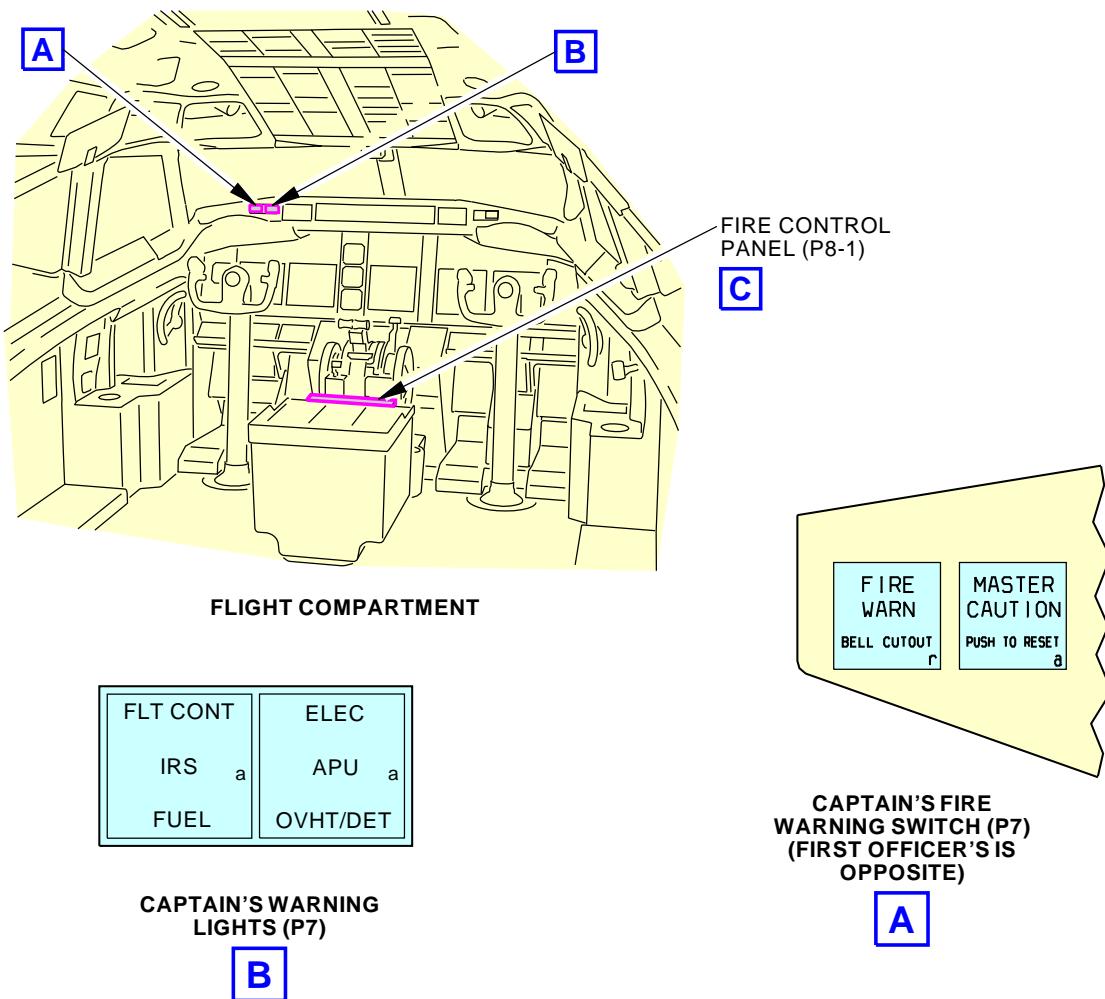
———— END OF TASK ——

— EFFECTIVITY —
AKS ALL

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FIRE CONTROL PANEL (P8-1)
C

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Engine Fire Detection System
Figure 201/26-11-00-990-804

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TASK 26-11-00-440-801

3. Engine Fire Detection - Activation

(Figure 201)

A. General

- (1) This task will activate the engine fire detection system.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Procedure

SUBTASK 26-11-00-420-002

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

———— END OF TASK ————

EFFECTIVITY
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ENGINE FIRE DETECTION - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure consists of these tasks:
 - (1) Engine Fire Detection - Operational Test.
 - (2) Engine Fire Detection Loop Resistance - System Test.
 - (3) Engine Fire Detection Circuit - System Test.

TASK 26-11-00-710-801

2. Engine Fire Detection - Operational Test

(Figure 501)

A. General

- (1) The Operational Test does a check of the Engine Fire Detection System without disturbing the detection system and it only uses the equipment that is on the airplane. This test will verify the circuit from the Engine and APU Fire Control Panel, P8-1, to the Engine and APU Fire Detection Control Module, M279. The test will verify that the Engine and APU Fire Detection Control Module, which continuously monitors the detection loops, operates correctly.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Operational Test

SUBTASK 26-11-00-860-001

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 26-11-00-860-002

- (2) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-00-860-003

- (3) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

EFFECTIVITY	AKS ALL
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SUBTASK 26-11-00-710-001

- (4) Make sure the two OVHT DET switches on the Engine and APU Fire Control Panel, P8-1, in the flight compartment are in the NORMAL positions.

E. Do the FIRE/OVHT Test

SUBTASK 26-11-00-710-002

- (1) Move and hold the TEST switch on the Engine and APU Fire Control Panel to the OVHT/FIRE position.

NOTE: Ignore the indication lights for the wheel well and APU detection system and the indications on the Engine and APU Fire Detection Control Module, M279, in the Electronic Equipment Bay.

- (a) On the Engine and APU Fire Control Panel, make sure these lights come on:
 - 1) Engine 1 Fire Handle light (Red).
 - 2) Engine 2 Fire Handle light (Red).
 - 3) ENG 1 OVERHEAT light (Amber).
 - 4) ENG 2 OVERHEAT light (Amber).
- (b) On the Pilot's Glareshield, P7, make sure these lights come on:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The Captain's and First Officer's FIRE WARN lights (Red).
 - 3) The OVHT/DET light (Amber).
- (c) Make sure the flight compartment fire bell in the Aural Warning Module, M315, comes on.

AKS 018, 020-999

- (d) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, come on.

AKS ALL

SUBTASK 26-11-00-710-003

- (2) Release the TEST switch on the Engine and APU Fire Control Panel.
 - (a) On the Engine and APU Fire Control Panel, make sure these lights go off:
 - 1) Engine 1 Fire Handle light (Red).
 - 2) Engine 2 Fire Handle light (Red).
 - 3) ENG 1 OVERHEAT light (Amber).
 - 4) ENG 2 OVERHEAT light (Amber).
 - (b) On the Pilot's Glareshield, make sure these lights go off:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The Captain's and First Officer's FIRE WARN lights (Red).
 - 3) The OVHT/DET light (Amber).
 - (c) Make sure the flight compartment fire bell in the Aural Warning Module, M315, stops.



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AKS 018, 020-999

- (d) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, turn off.

AKS ALL

F. Do the FAULT/INOP Test

SUBTASK 26-11-00-710-004

- (1) Move and hold the TEST switch on the Engine and APU Fire Control Panel to the FAULT/INOP position.

NOTE: Ignore the indication lights for the APU detection system and the indications on the Engine and APU Fire Detection Control Module, M279, in the Electronic Equipment Bay.

- (a) On the Engine and APU Fire Control Panel, make sure these lights come on:
1) FAULT light (Amber).
(b) On the Pilot's Glareshield, P7, make sure these lights come on:
1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
2) The OVHT/DET light (Amber).

SUBTASK 26-11-00-710-005

- (2) Release the TEST switch on the Engine and APU Fire Control Panel.

- (a) On the Engine and APU Fire Control Panel, make sure these lights are off:
1) FAULT light (Amber).
(b) On the Pilot's Glareshield, P7, make sure these lights are off:
1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
2) The OVHT/DET light (Amber).

G. Do the FAULT/INOP Test from the Engine and APU Fire Detection Control Module, M279

SUBTASK 26-11-00-710-006

- (1) Push and hold the FAULT/INOP TEST switch on the Engine and APU Fire Detection Control Module, in the Electrical and Electronics Compartment.

NOTE: Ignore the indications for the APU detection system and the indications that will occur in the flight compartment on the Engine and APU Fire Control Panel, P8-1, and the Pilot's Glareshield, P7.

- (a) On the Engine and APU Fire Detection Control Module, make sure these lights come on:
1) ENGINE 1 LOOP A (Amber).
2) ENGINE 1 LOOP B (Amber).
3) ENGINE 2 LOOP A (Amber).
4) ENGINE 2 LOOP B (Amber).
5) The three FAULT CODE lights are ON-ON-ON.

SUBTASK 26-11-00-710-007

- (2) Release the FAULT/INOP TEST switch on the Engine and APU Fire Detection Control Module.

- (a) On the Engine and APU Fire Detection Control Module, make sure these lights are off:
1) ENGINE 1 LOOP A (Amber).
2) ENGINE 1 LOOP B (Amber).

EFFECTIVITY
AKS ALL

26-11-00



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- 3) ENGINE 2 LOOP A (Amber).
- 4) ENGINE 2 LOOP B (Amber).
- 5) The three FAULT CODE lights are OFF-OFF-OFF.

H. Put the Airplane Back to its Usual Condition

SUBTASK 26-11-00-860-004

- (1) Close this circuit breaker:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

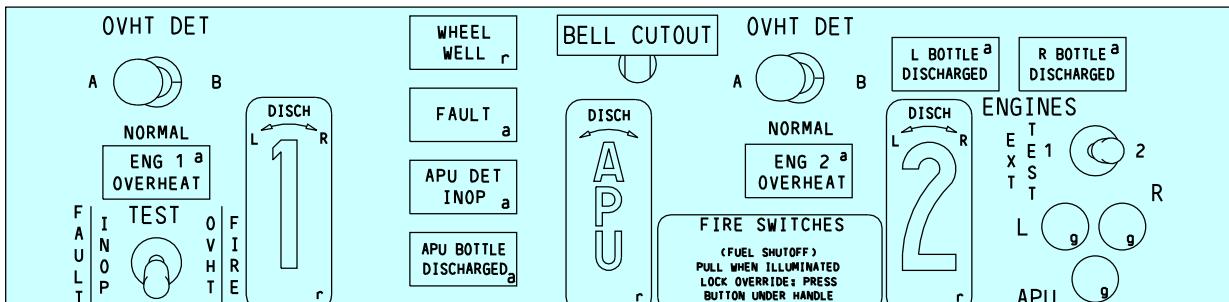
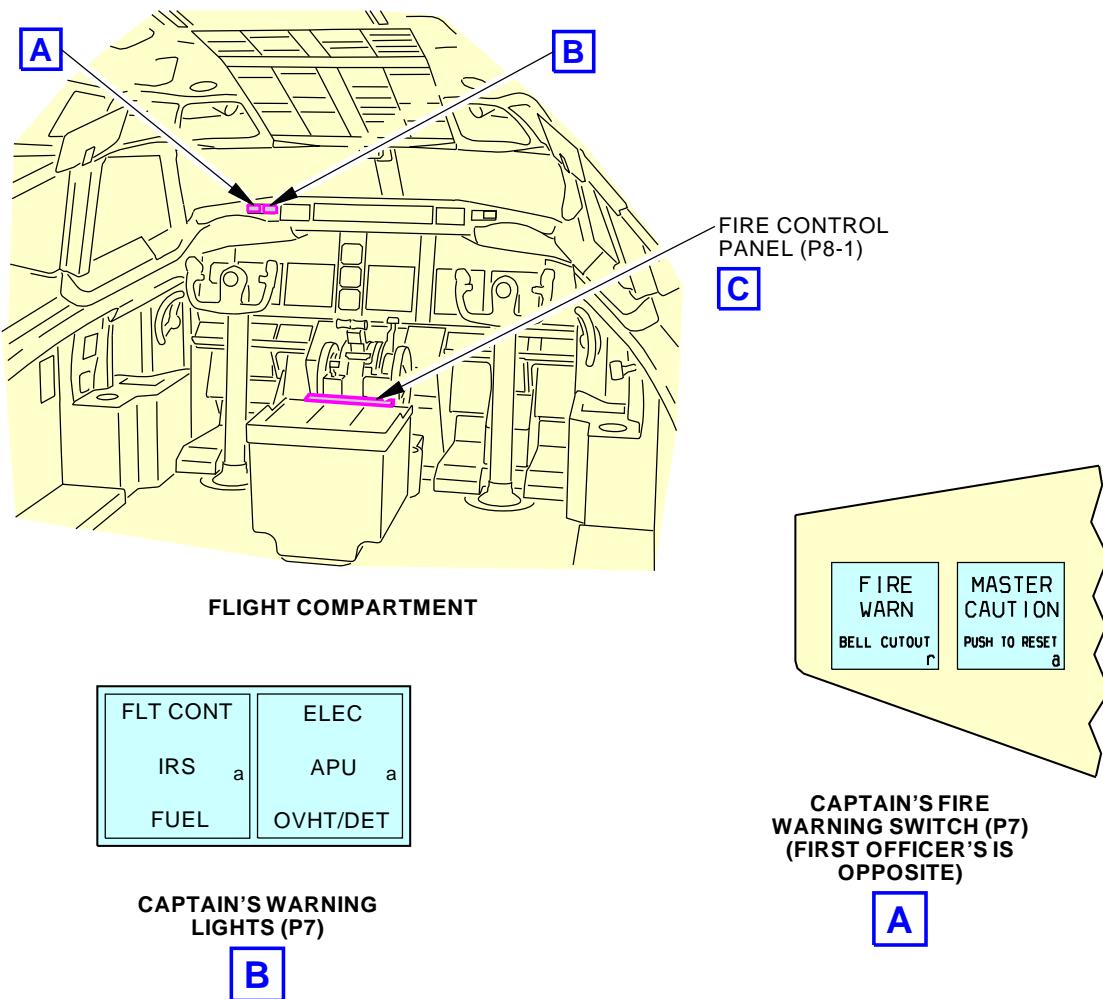
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EFFECTIVITY
AKS ALL

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FIRE CONTROL PANEL (P8-1)

C

G20005 S0006568026_V2

**Engine Fire Detection Operational Test
Figure 501/26-11-00-990-801**

EFFECTIVITY
AKS ALL

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D633A101-AKS



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TASK 26-11-00-730-801

3. Engine Fire Detection Loop Resistance - System Test

(Figure 502)

A. General

- (1) The Loop Resistance Test does a check of the Engine Fire Detection Loop Circuit. It disturbs the engine fire detection system by removing the Engine and APU Fire Detection Control Module, M279 and it requires some additional test equipment.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
26-10-01-000-801	Engine and APU Fire Detection Module Removal (P/B 401)
26-10-01-400-801	Engine and APU Fire Detection Module Installation (P/B 401)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Prepare for the Loop Resistance Test

SUBTASK 26-11-00-860-005

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.



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SUBTASK 26-11-00-860-006

- (2) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-00-010-001

- (3) Get access to the Electronic Equipment Bay, do this task:

Open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

G. Engine Fire Detection Loop Resistance Test

SUBTASK 26-11-00-020-001

- (1) Do this task: Engine and APU Fire Detection Module Removal, TASK 26-10-01-000-801.

SUBTASK 26-11-00-730-001

- (2) Use a digital/analog multimeter, COM-1793 to measure the resistance across pin 25 of connector D1002 and airplane ground.

- (a) Make sure the resistance is 862 ± 40 ohms.

SUBTASK 26-11-00-730-002

- (3) Use a digital/analog multimeter, COM-1793 to measure the resistance across pin 12 of connector D1002 and airplane ground.

- (a) Make sure the resistance is 862 ± 40 ohms.

SUBTASK 26-11-00-730-003

- (4) Use a digital/analog multimeter, COM-1793 to measure the resistance across pin 25 of connector D998 and airplane ground.

- (a) Make sure the resistance is 862 ± 40 ohms.

SUBTASK 26-11-00-730-004

- (5) Use a digital/analog multimeter, COM-1793 to measure the resistance across pin 12 of connector D998 and airplane ground.

- (a) Make sure the resistance is 862 ± 40 ohms.

SUBTASK 26-11-00-420-001

- (6) Do this task: Engine and APU Fire Detection Module Installation, TASK 26-10-01-400-801.

H. Put the Airplane Back to its Usual Condition

SUBTASK 26-11-00-410-001

- (1) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door



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SUBTASK 26-11-00-860-007

- (2) Close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

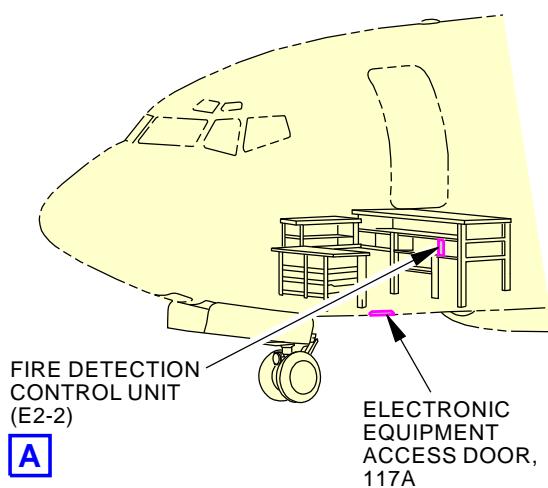
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EFFECTIVITY
AKS ALL

26-11-00



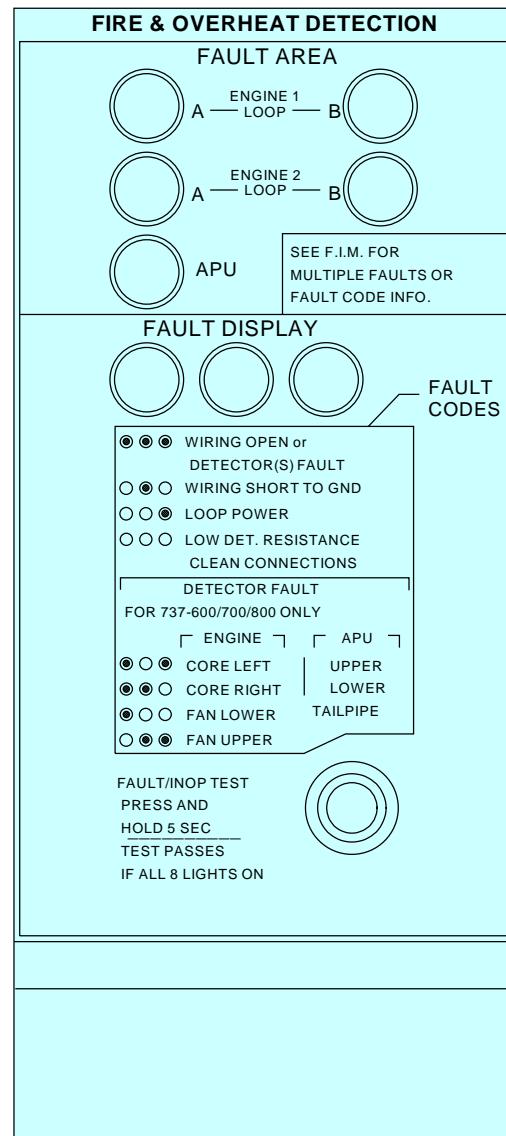
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FIRE DETECTION
CONTROL UNIT
(E2-2)

A

ELECTRONIC
EQUIPMENT
ACCESS DOOR,
117A



FIRE DETECTION CONTROL UNIT

A

G20261 S0006568028_V2

Engine Fire Detection Resistance Test
Figure 502/26-11-00-990-802

EFFECTIVITY
AKS ALL

26-11-00



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TASK 26-11-00-730-802

4. Engine Fire Detection Circuit - System Test

(Figure 501, Figure 503)

A. General

- (1) The Circuit Test does a check of the entire Engine Fire Detection System. It does not disturb the engine fire detection system but it does require additional test equipment.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
71-11-02-010-801-F00	Open the Fan Cowl Panels (P/B 201)
71-11-02-410-801-F00	Close the Fan Cowl Panels (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-1655	Equipment - Test, APU/Engine Fire Detection System Part #: C26005-1 Supplier: 81205

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right
411	Engine 1 - Engine
421	Engine 2 - Engine

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Prepare for the Circuit Test

SUBTASK 26-11-00-860-008

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 26-11-00-860-009

- (2) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1



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F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
D	15	C01401	LANDING GEAR AIR/GND RELAY
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6

SUBTASK 26-11-00-860-010

- (3) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

SUBTASK 26-11-00-010-002

- (4) Get access to the Electronic Equipment Bay, do this task:

Open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 26-11-00-010-004

- (5) Do this task: Open the Fan Cowl Panels, TASK 71-11-02-010-801-F00.

SUBTASK 26-11-00-730-005

- (6) Make sure the two OVHT DET switches, on the Engine and APU Fire Control Panel, P8-1, are in the NORMAL positions.

SUBTASK 26-11-00-480-001

- (7) On Engine 1 (2), connect the test box equipment, SPL-1655 to the two terminal lugs (A/1 and B/2) of the FAN LOWER Fire Detector, M1758, and airplane ground.

NOTE: This test is written for engine 1. The test is the same for engine 2, except as noted by the data in parenthesis. Use the data in parenthesis to do the test for engine 2.

- (a) Make sure all the toggle switches on the test box are in the NORMAL positions.
- (b) Connect one pair of alligator clips to each loop:
 - 1) Connect one alligator clip to the responder bracket or to a grounding lug.
 - 2) Connect the other alligator clip to the responder lug.

G. Do a test of the fault indication circuit

SUBTASK 26-11-00-730-006

- (1) On the test box, move the ENGINE LOOP A/1 GND FAULT switch to the GND FAULT position.



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- (a) On the Engine and APU Fire Detection Control Module, M279, make sure these conditions occur:
 - 1) The ENGINE 1 (2) LOOP A FAULT AREA light comes on.
 - 2) The three FAULT CODE lights are OFF-ON-OFF.

SUBTASK 26-11-00-730-007

- (2) On the test box, move the ENGINE LOOP B/2 GND FAULT switch to the GND FAULT position.
 - (a) Make sure the FAULT light on the Engine and APU Fire Control Panel, P8-1, comes on.
 - (b) On the Engine and APU Fire Detection Control Module, M279, make sure these conditions occur:
 - 1) The ENGINE 1 (2) LOOP A FAULT AREA light comes on.
 - 2) The ENGINE 1 (2) LOOP B FAULT AREA light comes on.
 - 3) The three FAULT CODE lights are OFF-ON-OFF.

SUBTASK 26-11-00-730-008

- (3) On the test box, move the ENGINE LOOP A/1 AND B/2 GND FAULT switches to the NORMAL position.
 - (a) Make sure the FAULT light on the Engine and APU Fire Control Panel, P8-1, goes off.
 - (b) On the Engine and APU Fire Detection Control Module, M279, make sure these conditions occur:
 - 1) The ENGINE 1 (2) LOOP A FAULT AREA light goes off.
 - 2) The ENGINE 1 (2) LOOP B FAULT AREA light goes off.
 - 3) The three FAULT CODE lights are OFF-OFF-OFF.

H. Do a test of the overheat indication circuit

SUBTASK 26-11-00-730-009

- (1) On the test box, move the ENGINE LOOP A/1 AND B/2 OVHT switches to the OVHT position.
 - (a) Make sure the ENG 1 (2) OVERHEAT light on the Engine and APU Fire Control Panel, P8-1, comes on.
 - (b) On the Pilot's Glareshield, P7, make sure these conditions occur:
 - 1) The Captain and First Officer's MASTER CAUTION lights come on.
 - 2) The OVHT DET light comes on.

SUBTASK 26-11-00-730-010

- (2) On the test box, move the ENGINE LOOP A/1 AND B/2 OVHT switches to the NORMAL position.
 - (a) Make sure the ENG 1 (2) OVERHEAT light on the Engine and APU Fire Control Panel, P8-1, goes off.
 - (b) On the Pilot's Glareshield, P7, make sure these conditions occur:
 - 1) The Captain and First Officer's MASTER CAUTION lights goes off.
 - 2) The OVHT DET light goes off.

I. Do a test of the fire indication circuit

SUBTASK 26-11-00-730-011

- (1) On the test box, move the ENGINE LOOP A/1 AND B/2 FIRE switches to the FIRE position.
 - (a) Make sure the engine 1 (2) Fire Handle light, on the Engine and APU Fire Control Panel, P8-1, comes on.

EFFECTIVITY
AKS ALL

26-11-00

D633A101-AKS



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- (b) On the Pilot's Glareshield, P7, make sure these conditions occur:
 - 1) The Captain and First Officer's MASTER CAUTION lights come on.
 - 2) The Captain and First Officer's FIRE WARN lights comes on.
- (c) Make sure the flight compartment fire bell, on the Aural Warning Module, M315, comes on.

AKS 018, 020-999

- (d) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, come on.

AKS ALL

SUBTASK 26-11-00-730-012

- (2) On the test box, move the ENGINE LOOP A/1 AND B/2 FIRE switches to the NORMAL position.
 - (a) Make sure the engine 1 (2) Fire Handle light, on the Engine and APU Fire Control Panel, P8-1, goes off.
 - (b) On the Pilot's Glareshield, P7, make sure these conditions occur:
 - 1) The Captain and First Officer's MASTER CAUTION lights goes off.
 - 2) The Captain and First Officer's FIRE WARN lights goes off.
 - (c) Make sure the flight compartment fire bell, on the Aural Warning Module, M315, stops.

AKS 018, 020-999

- (d) Make sure the lights on the left and right Engine Start Levers, on the Engine Start Lever Panel, P10, turn off.

AKS ALL

SUBTASK 26-11-00-480-002

- (3) On Engine 1 (2), disconnect the test box equipment, SPL-1655 from the two terminal lugs (A/1 and B/2) of the FAN LOWER Fire Detector, M1758, and airplane ground.

SUBTASK 26-11-00-730-013

- (4) Make sure you do the circuit test for engine 1 and engine 2.

J. Put the airplane back to its usual condition.

SUBTASK 26-11-00-410-003

- (1) Do this task: Close the Fan Cowl Panels, TASK 71-11-02-410-801-F00.

SUBTASK 26-11-00-410-002

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 26-11-00-860-011

- (3) Close this circuit breaker:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
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A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
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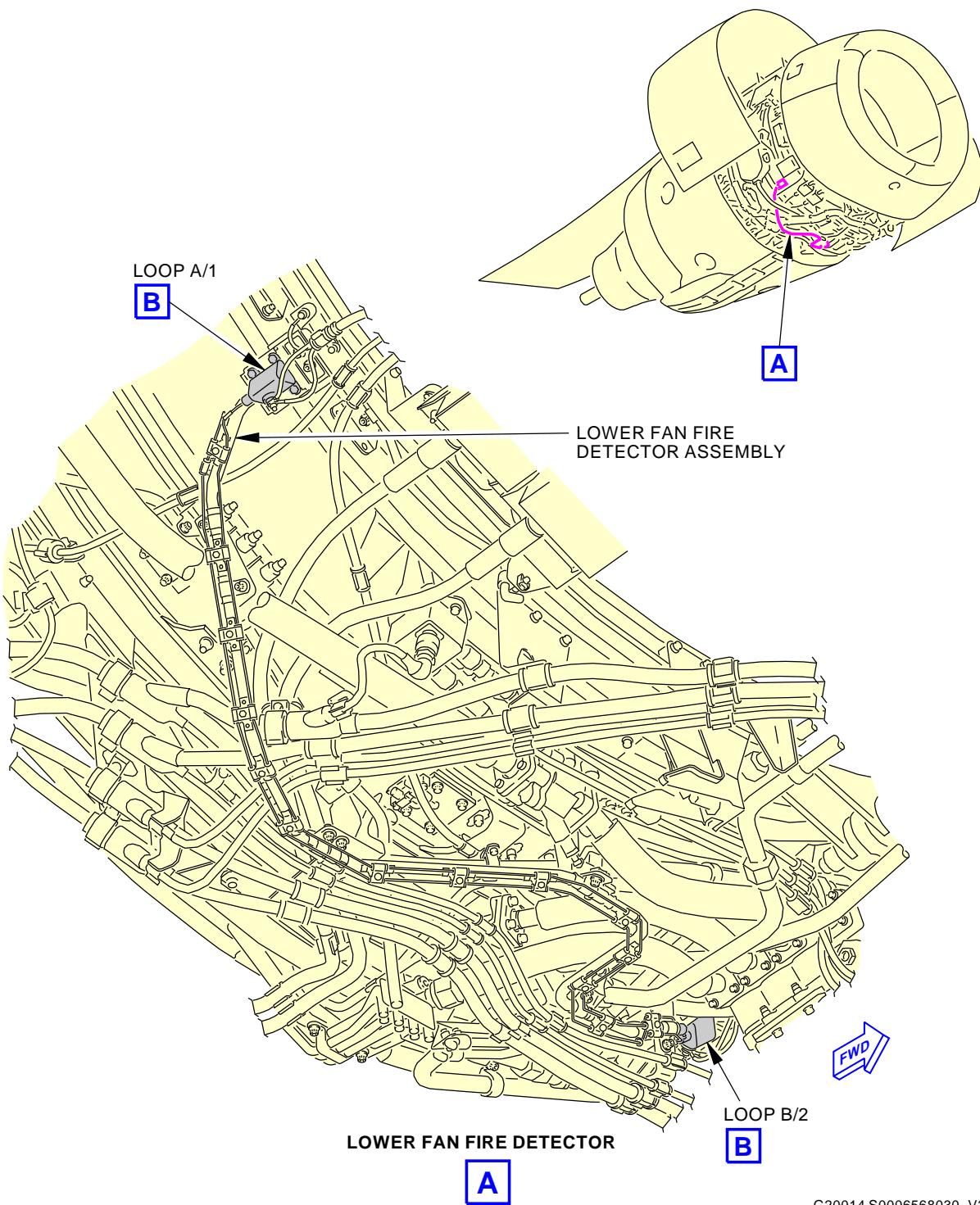
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EFFECTIVITY
AKS ALL

26-11-00



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G20014 S0006568030_V2

Engine Fire Detection Circuit Test
Figure 503/26-11-00-990-803 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

26-11-00

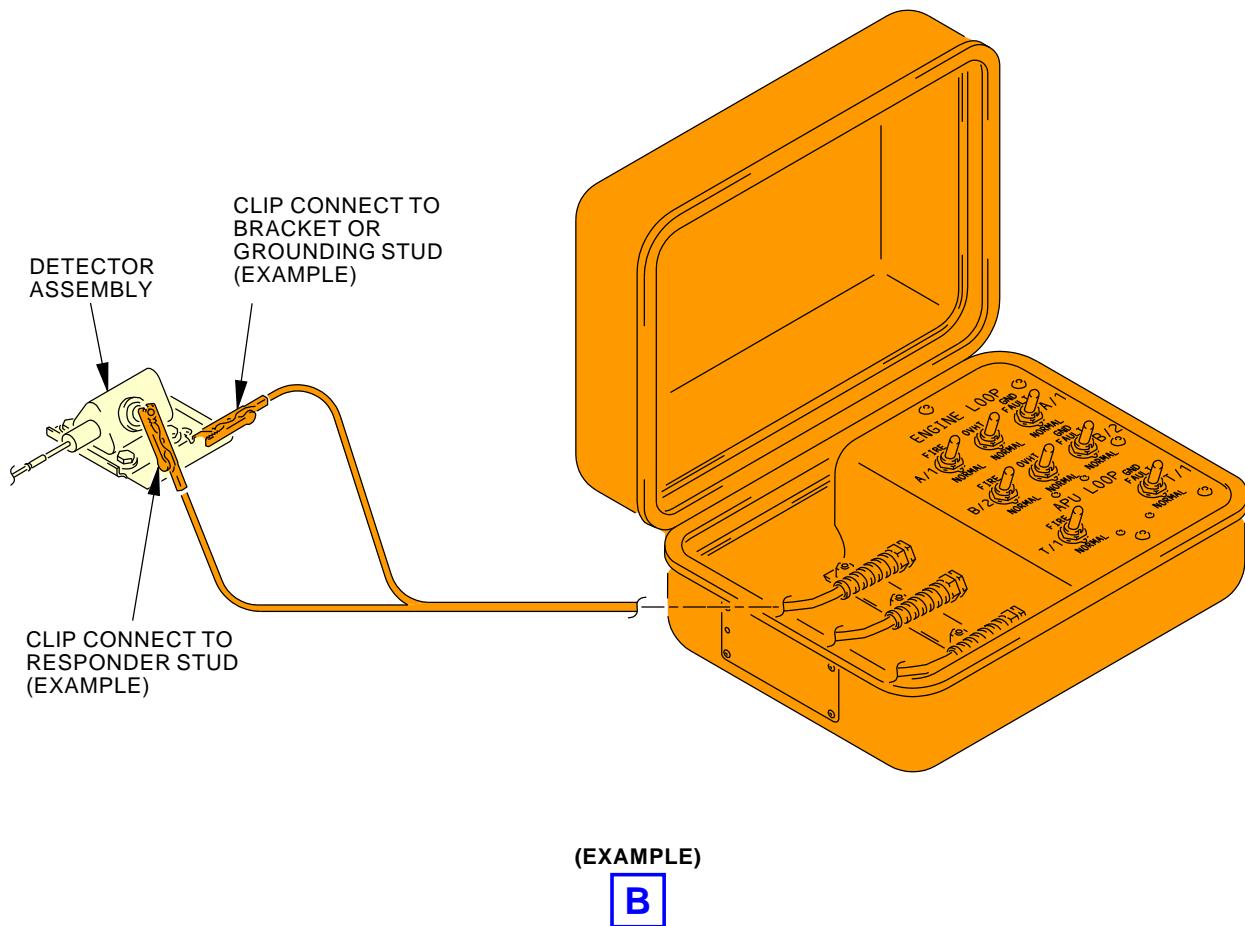
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G20214 S0006568031_V2

Engine Fire Detection Circuit Test
Figure 503/26-11-00-990-803 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

26-11-00

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ENGINE FIRE DETECTORS - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the engine fire detector elements.
 - (2) An installation of the engine fire detector elements.
 - (3) A removal of the engine fire detector assemblies.
 - (4) An installation of the engine fire detector assemblies.
- B. There are four different fire detectors on each engine. One is installed in the upper fan area. One is installed in the lower fan area. One is installed in the left engine core. One is installed in the right engine core. All of the engine fire detectors are dual loop detectors. Each fire detector assembly has two elements which you can remove separately. The removal and installation procedures are similar for each fire detector assembly or element.

TASK 26-11-01-000-801

2. Engine Fire Detector Element Removal

(Figure 401)

A. References

Reference	Title
71-11-02-010-801-F00	Open the Fan Cowl Panels (P/B 201)
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)

B. Location Zones

Zone	Area
411	Engine 1 - Engine
421	Engine 2 - Engine

C. To access the fan fire detector assemblies, do this procedure.

SUBTASK 26-11-01-010-001

- (1) Do this task: Open the Fan Cowl Panels, TASK 71-11-02-010-801-F00.

D. To access the core fire detection procedure, do this procedure.

SUBTASK 26-11-01-010-002

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSERS: RETRACT THE LEADING EDGE, DO THE DEACTIVATION PROCEDURES FOR THE LEADING EDGE AND THE THRUST REVERSERS (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANELS. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

E. Fire detector removal.

SUBTASK 26-11-01-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

EFFECTIVITY
AKS ALL

26-11-01



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(Continued)

F/O Electrical System Panel, P6-2

Row Col Number Name

A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

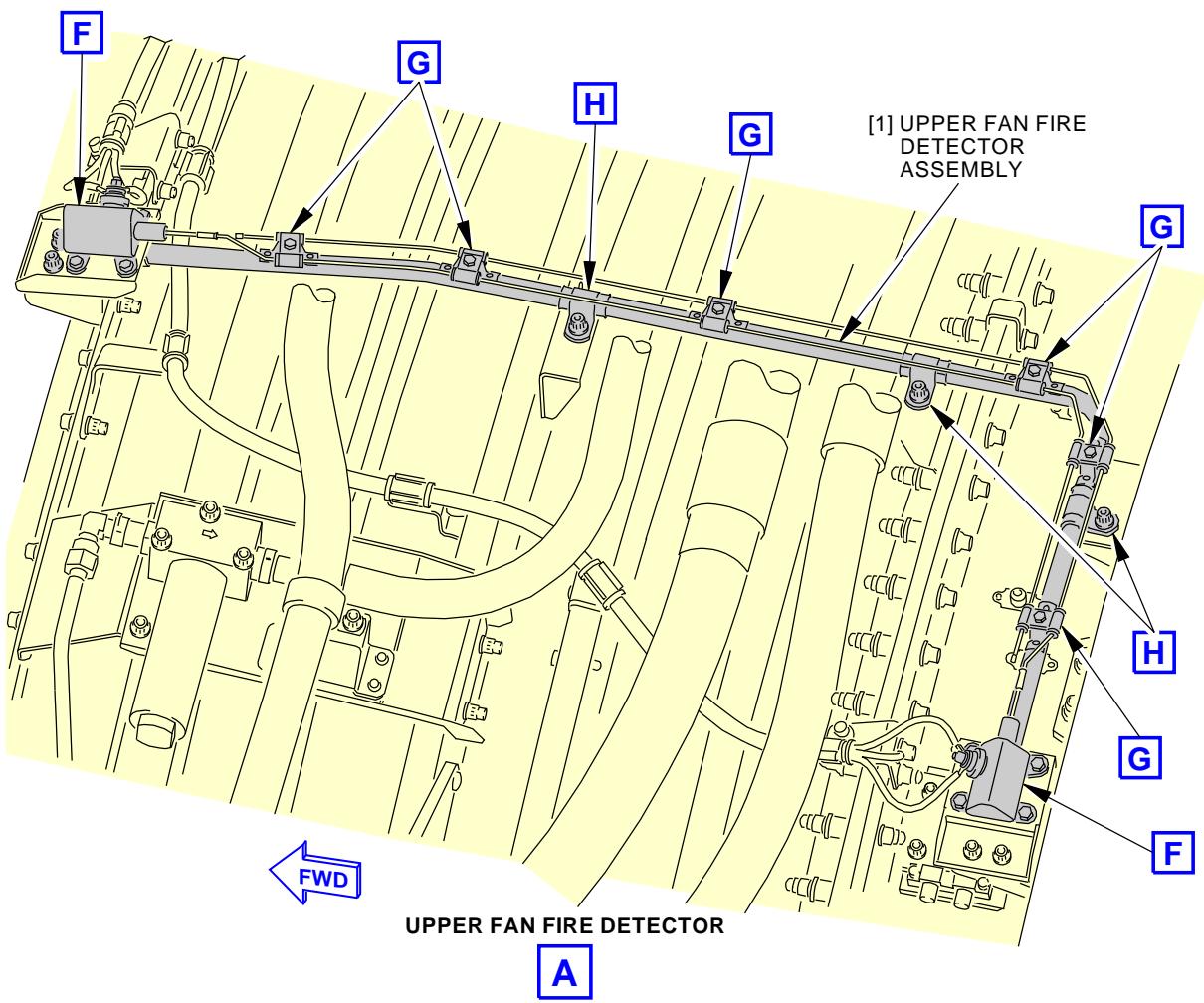
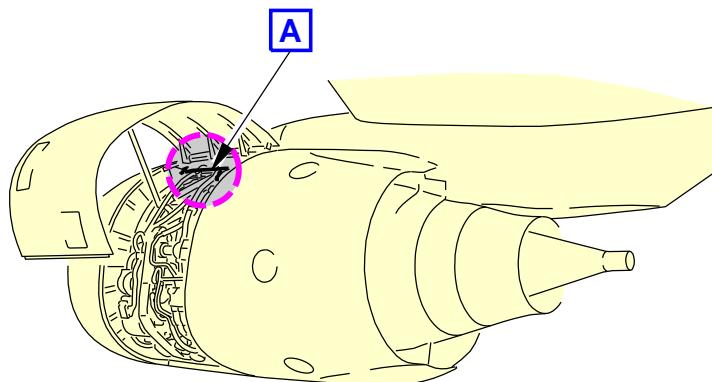
SUBTASK 26-11-01-020-001

- (2) Do these steps to remove a fire detector element [4]:
- (a) Remove the nut [2] from the terminal.
 - (b) Disconnect the lead [3] from the terminal.
 - (c) Loosen the bolt [9] on each applicable clamp [8].
 - (d) Remove the four screws [6] from the fire detector housing [5].
 - (e) Remove the element [4] from the clamp [8].
 - (f) Remove the grommets [10] from the element [4] to use on the new element.
 - (g) Remove the element [4].

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-11-01

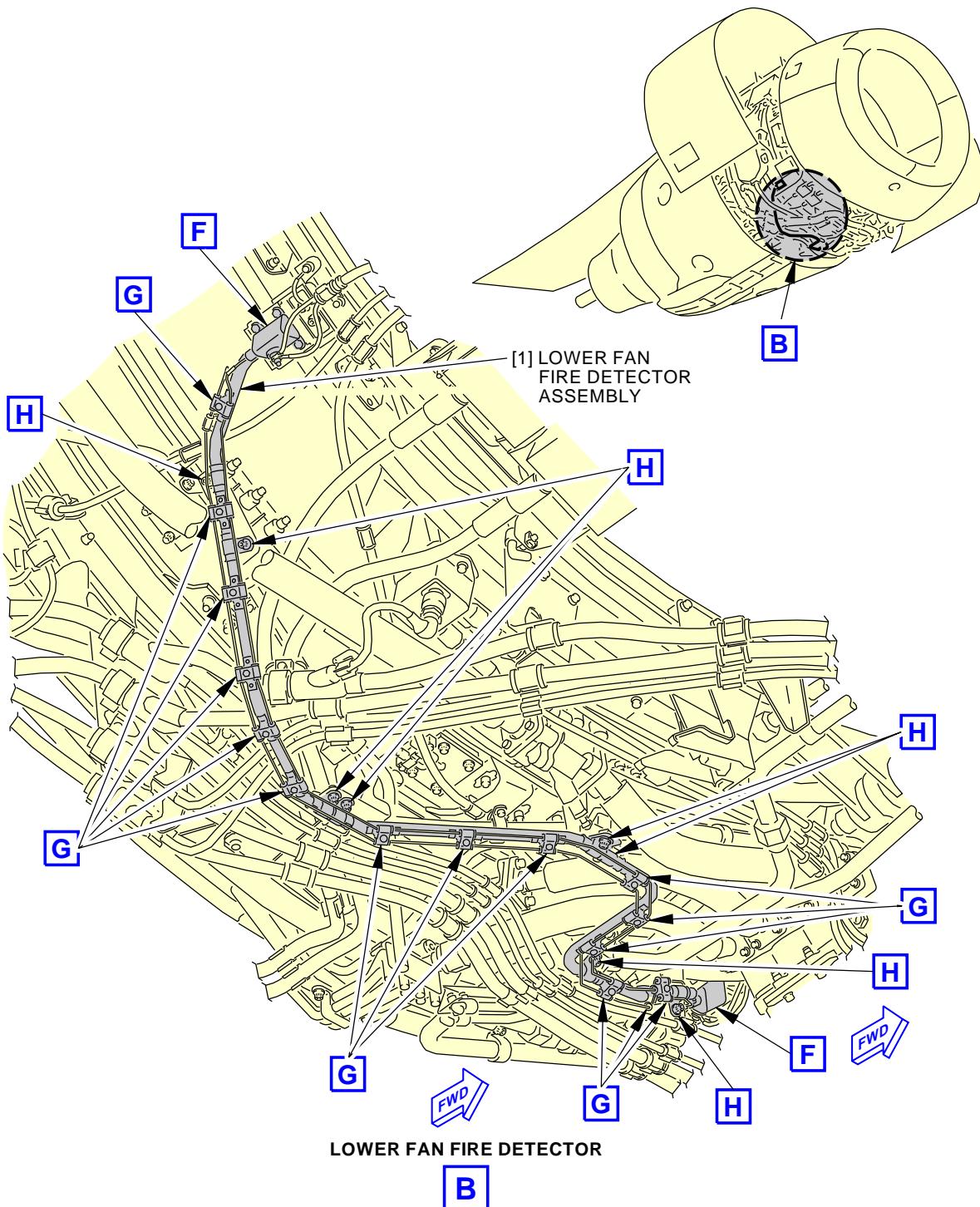


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Engine Fire Detectors Installation
Figure 401/26-11-01-990-801 (Sheet 1 of 6)

EFFECTIVITY
AKS ALL

26-11-01



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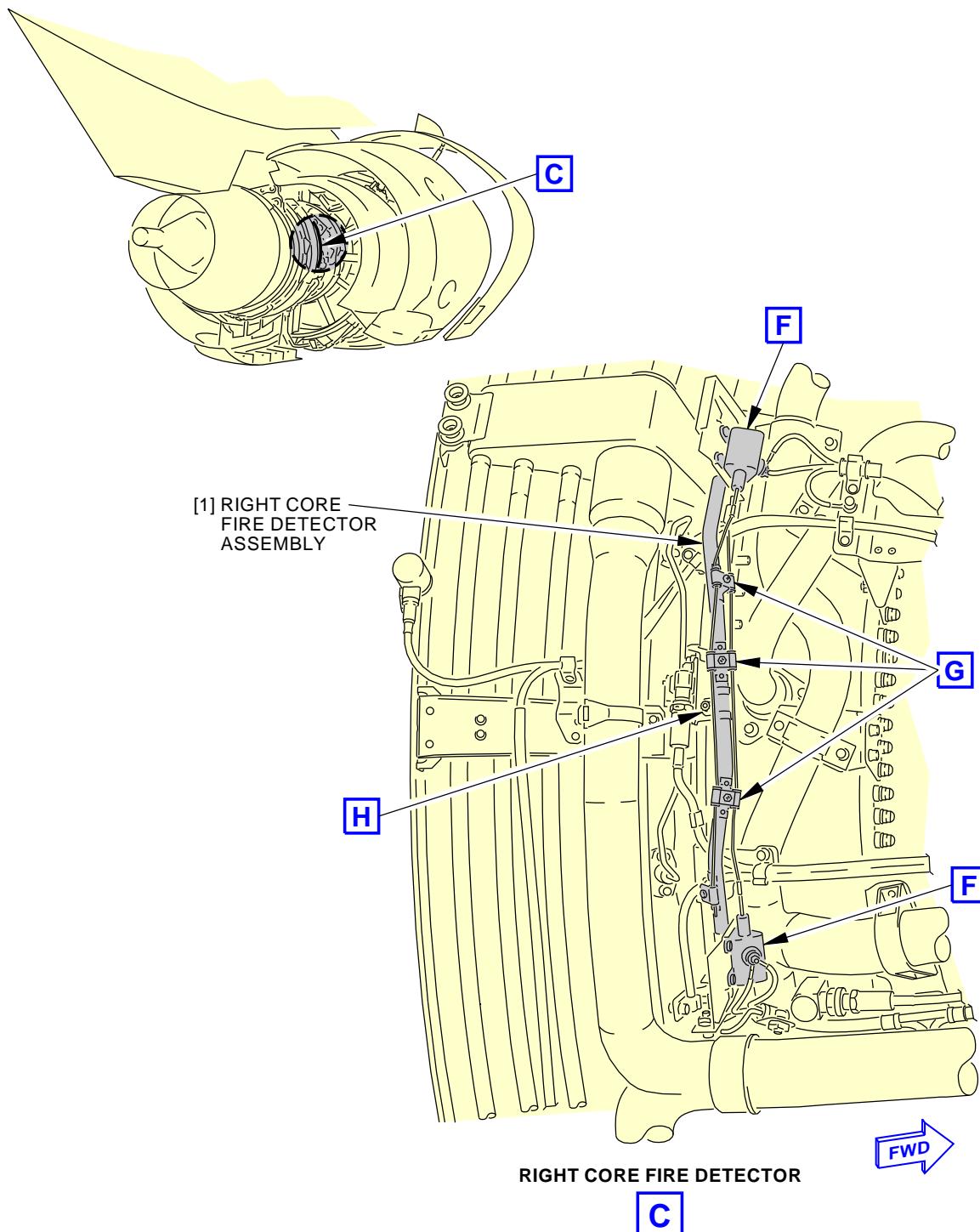
Engine Fire Detectors Installation
Figure 401/26-11-01-990-801 (Sheet 2 of 6)

EFFECTIVITY
AKS ALL

26-11-01

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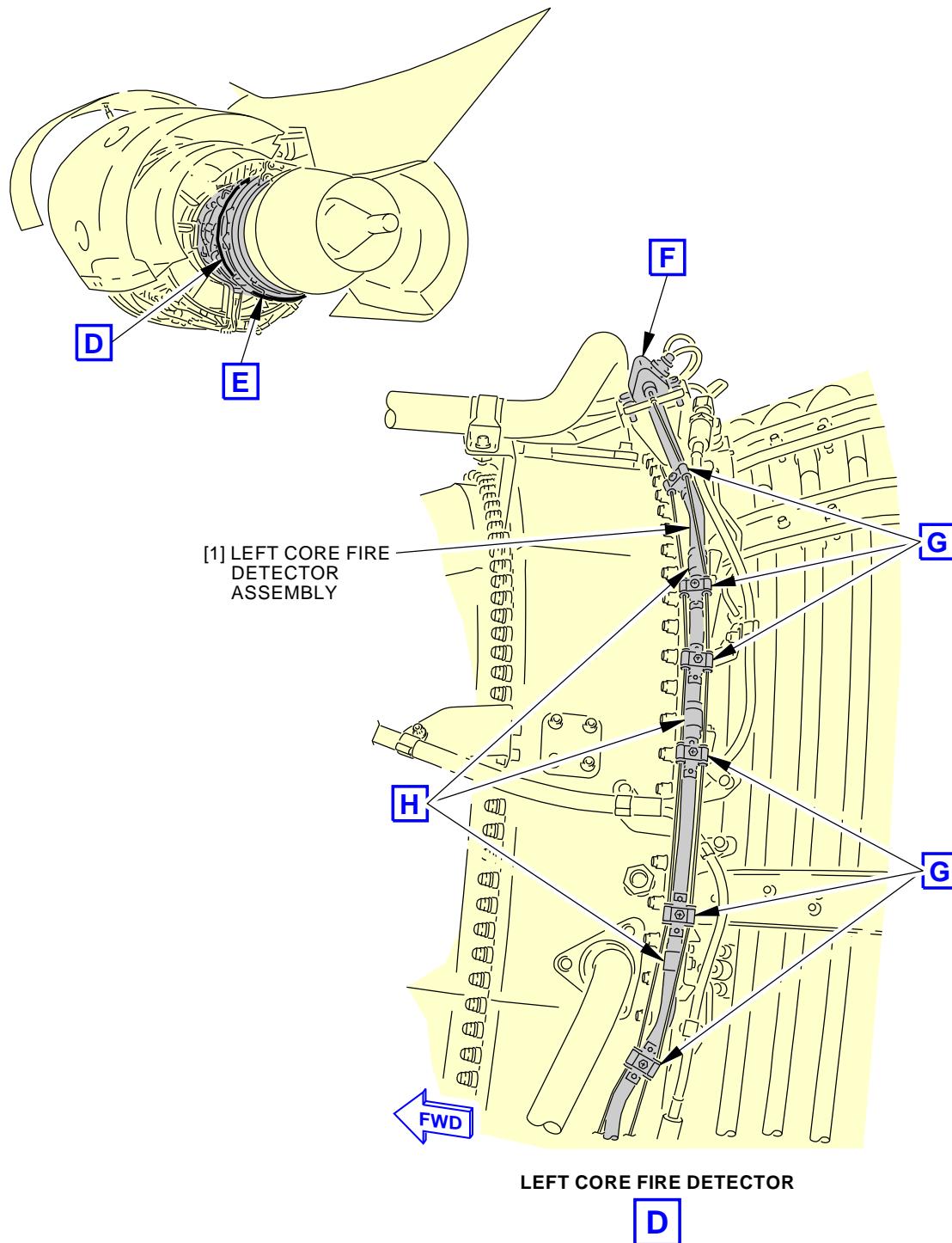


F20136 S0006568037_V2

Engine Fire Detectors Installation
Figure 401/26-11-01-990-801 (Sheet 3 of 6)

EFFECTIVITY
AKS ALL

26-11-01

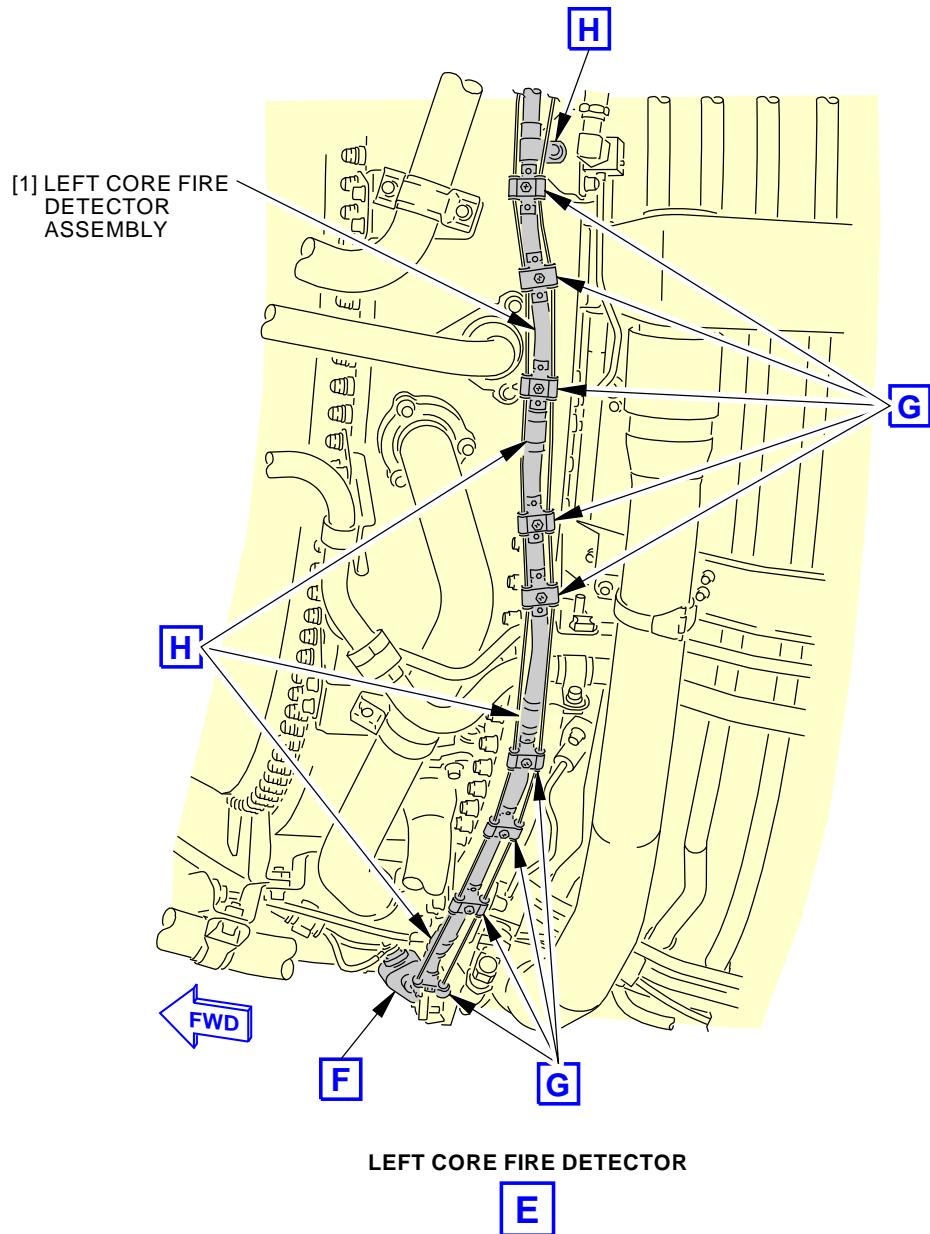


F22155 S0006568038_V2

Engine Fire Detectors Installation
Figure 401/26-11-01-990-801 (Sheet 4 of 6)

EFFECTIVITY
AKS ALL

26-11-01



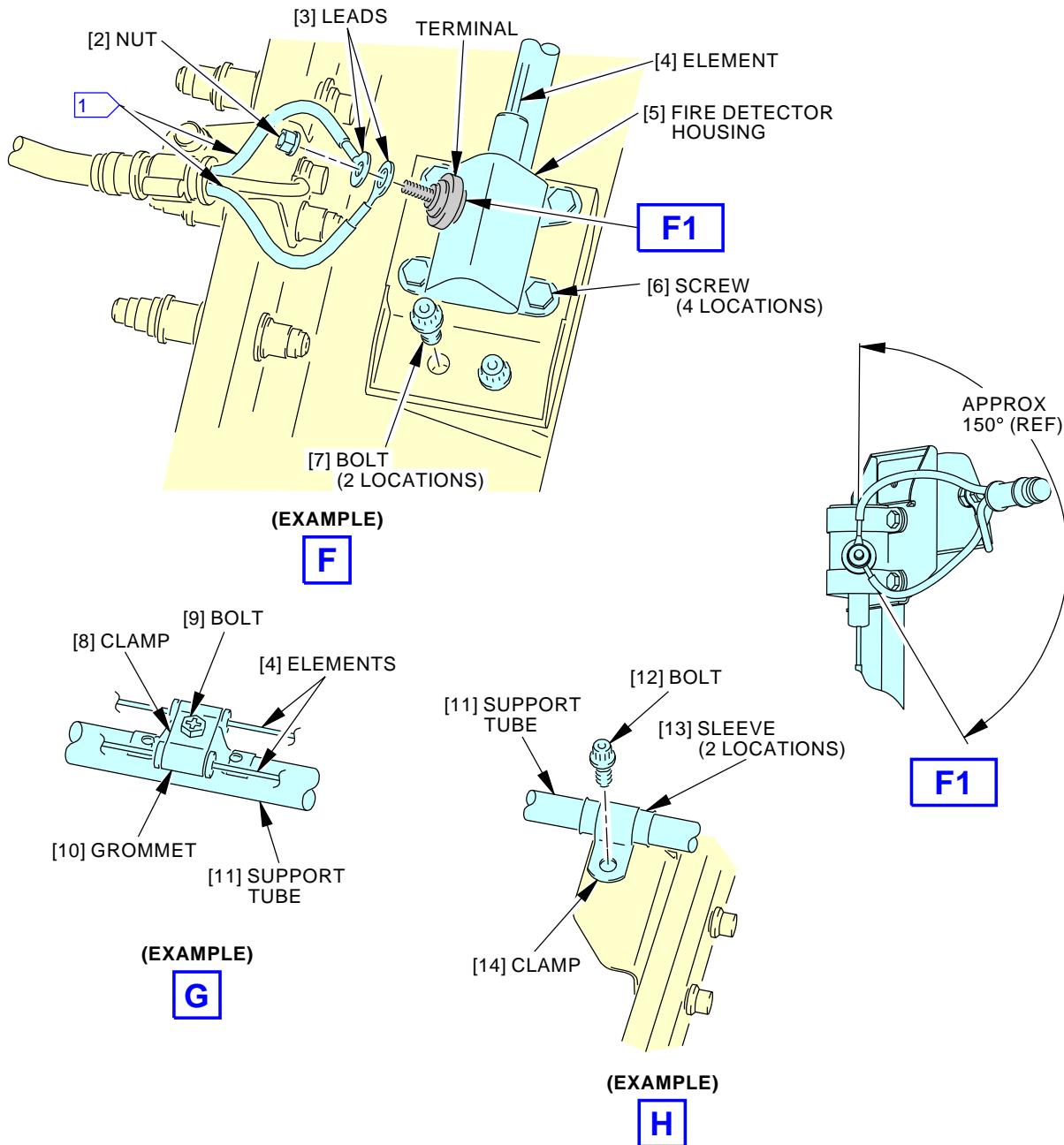
F22166 S0006568039_V2

Engine Fire Detectors Installation
Figure 401/26-11-01-990-801 (Sheet 5 of 6)

EFFECTIVITY
AKS ALL

26-11-01

D633A101-AKS

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- 1** SEPARATE WIRES AS MUCH AS POSSIBLE. BEND DOWN AND AWAY FROM CONTACT WITH STRUT BLANKET. FOR MW0316 DETECTOR, ADJUST THE WIRES AND SECURE PER SWPM 20-10-11 TO ACHIEVE A MINIMUM CLEARANCE OF 0.15 INCHES (3.81 mm) BETWEEN THE FIRE DETECTION WIRES AND THE STRUT INSULATION BRACKET.

F22178 S0006568040_V7

**Engine Fire Detectors Installation
Figure 401/26-11-01-990-801 (Sheet 6 of 6)**

 EFFECTIVITY
AKS ALL

26-11-01

D633A101-AKS



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AIRCRAFT MAINTENANCE MANUAL

TASK 26-11-01-400-801

3. Engine Fire Detector Element Installation

(Figure 401)

A. References

Reference	Title
26-11-00-710-801	Engine Fire Detection - Operational Test (P/B 501)
71-11-02-010-801-F00	Open the Fan Cowl Panels (P/B 201)
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meters - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

C. Consumable Materials

Reference	Description	Specification
B00083	Solvent - VM&P Naphthas	ASTM D-3735 Type III

D. Location Zones

Zone	Area
411	Engine 1 - Engine
421	Engine 2 - Engine

E. To access the fan fire detector assemblies, do this procedure.

SUBTASK 26-11-01-010-003

- (1) Do this task: Open the Fan Cowl Panels, TASK 71-11-02-010-801-F00.

F. To access the core fire detection procedure, do this procedure.

SUBTASK 26-11-01-010-004

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSERS: RETRACT THE LEADING EDGE, DO THE DEACTIVATION PROCEDURES FOR THE LEADING EDGE AND THE THRUST REVERSERS (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANELS. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

G. Fire Detector Element Installation

SUBTASK 26-11-01-420-001

- (1) Do these steps to install one of the fire detector element [4]:
 - (a) Position the fire detector element [4] along the support tube [11].
 - (b) Put the fire detector housing [5] in the correct position on the mounting bracket.

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- (c) Install the four screws [6] that hold the fire detector housing [5] to the mounting bracket.
 - 1) Tighten the screws [6].
- (d) Put the grommets [10] on the element [4] at each clamp [8] location.
- (e) Put the element [4] into each clamp [8].
- (f) Make sure the end of the detector element extends less than 1 inch past the last grommet [10].
 - 1) If the detector element [4] extends more than 1 inch, adjust the length of the element [4] between each clamp [8] so that any slack is evenly distributed.
- (g) Make sure there is at least 0.12 inch (3 mm) between the fire detector element [4] and the support tube [11].
- (h) Tighten the bolt [9] on each applicable clamp [8] until 1-1/2 to 3 threads extend through the nut.
 - 1) Make sure the grommets [10] and clamps [8] are tight.
 - 2) Make sure the ends of the bolts [9] do not touch the support tube [11].
- (i) Install the leads [3] to the terminal.

NOTE: If the leads are different sizes, install the lead with the small hole under the lead with the large hole.
- (j) Install the nut [2] to the terminal.
 - 1) Tighten the nut [2] to 30 ± 5 in-lb (3.4 ± 0.6 N·m).

SUBTASK 26-11-01-280-001

- (2) Using the intrinsically safe approved bonding meter, COM-1550, do a check of the resistance between the fire detector housing [5] and the airplane structure.
 - (a) Make sure the resistance is less than 0.010 ohm.
 - (b) If the resistance is more than 0.010 ohm, clean the bonding surfaces with the solvent, B00083 and do the check again.

SUBTASK 26-11-01-860-002

- (3) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

H. Engine Fire Detector Element Installation Test

SUBTASK 26-11-01-710-001

- (1) Do this task: Engine Fire Detection - Operational Test, TASK 26-11-00-710-801.

———— END OF TASK ————

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TASK 26-11-01-000-802

4. Engine Fire Detector Assembly Removal

(Figure 401)

A. References

Reference	Title
71-11-02-010-801-F00	Open the Fan Cowl Panels (P/B 201)
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)

B. Location Zones

Zone	Area
411	Engine 1 - Engine
421	Engine 2 - Engine

C. To access the fan fire detector assemblies, do this procedure.

SUBTASK 26-11-01-010-005

- (1) Do this task: Open the Fan Cowl Panels, TASK 71-11-02-010-801-F00.

D. To access the core fire detection procedure, do this procedure.

SUBTASK 26-11-01-010-006

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSERS: RETRACT THE LEADING EDGE, DO THE DEACTIVATION PROCEDURES FOR THE LEADING EDGE AND THE THRUST REVERSERS (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANELS. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

E. Fire Detector Assembly Removal

SUBTASK 26-11-01-860-003

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-01-020-002

- (2) Do these steps to remove one of the fire detector assemblies [1]:

NOTE: The fire detector assembly [1] includes the support tube [11] with the detector elements [4] installed and the mounting hardware.

- Remove the nuts [2], and leads [3] from the terminal lugs on the fire detector housing [5].
- Remove the bolts [12] from the clamps [14] that hold the support tube [11] in its position.
- Remove the bolts [7] which hold the detector in its position.
- Remove the fire detector assembly [1].

— END OF TASK —



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TASK 26-11-01-400-802

5. Engine Fire Detector Assembly Installation

(Figure 401)

A. References

Reference	Title
26-11-00-710-801	Engine Fire Detection - Operational Test (P/B 501)
71-11-02-010-801-F00	Open the Fan Cowl Panels (P/B 201)
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meters - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

C. Consumable Materials

Reference	Description	Specification
B00083	Solvent - VM&P Naphthas	ASTM D-3735 Type III

D. Location Zones

Zone	Area
411	Engine 1 - Engine
421	Engine 2 - Engine

E. To access the fan fire detector assemblies, do this procedure.

SUBTASK 26-11-01-010-007

- (1) Do this task: Open the Fan Cowl Panels, TASK 71-11-02-010-801-F00.

F. To access the core fire detection procedure, do this procedure.

SUBTASK 26-11-01-010-008

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSERS: RETRACT THE LEADING EDGE, DO THE DEACTIVATION PROCEDURES FOR THE LEADING EDGE AND THE THRUST REVERSERS (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANELS. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

G. Fire Detector Assembly Installation

SUBTASK 26-11-01-420-002

- (1) Do these steps to install one of the fire detector assemblies [1]:
 - (a) Make sure the ends of the fire detector assembly [1] and the brackets are clean.
 - (b) Position the fire detector assembly [1] on the engine.

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- (c) Make sure the preload between the fire detector assembly [1] and the attach points is not more than 10 pound-feet (44 Newton-meters).
- (d) Install the bolts [7] that hold the fire detector assembly [1] to the engine.
 - 1) Tighten the bolts [7] to 72-88 pound-inches (8.13-9.94 Newton-meters).
- (e) Install the bolts [12] at each applicable clamp [14] location along the support tube [11].
 - 1) Tighten the bolts [12] to 72-88 pound-inches (8.13-9.94 Newton-meters).
- (f) Make sure there is at least 0.12 inch (3 mm) between the fire detector elements [4] and the support tube [11].
- (g) Install the leads [3] to the terminal.

NOTE: If the leads are different sizes, install the lead with the small hole on top of the lead with the large hole.
- (h) Install the nuts [2] to the terminal.
 - 1) Tighten the nuts [2] to 25-35 pound-inches (2.8-3.9 Newton-meters).

SUBTASK 26-11-01-280-002

- (2) Using a intrinsically safe approved bonding meter, COM-1550, do a check of the resistance between the fire detector housing [5] and the airplane structure.
 - (a) Make sure the resistance is less than 0.010 ohm.
 - (b) If the resistance is more than 0.010 ohm, clean the bonding surfaces with the solvent, B00083 and do the check again.

H. Engine Fire Detector Element Installation Test

SUBTASK 26-11-01-710-002

- (1) Do this task: Engine Fire Detection - Operational Test, TASK 26-11-00-710-801.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 26-11-01-860-004

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

———— END OF TASK ————

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ENGINE FIRE DETECTORS - INSPECTION/CHECK

1. General

- A. This procedure has this task:
- (1) An inspection of the wires to the forward transponder of the upper fan case engine fire overheat detector for contact with the strut insulation blanket.

TASK 26-11-01-211-801

2. Engine Fire Detector Inspection

A. References

Reference	Title
26-11-01-990-801	Figure: Engine Fire Detectors Installation (P/B 401)

B. Consumable Materials

Reference	Description	Specification
G50541	Tubing - Heat Shrinkable, Teflon Sleeve (TFE-R-5/8-X)	AMS-DTL-23053/12
G50544	Tubing - Heat Shrinkable, Teflon Sleeve (TFE-R-1/2-X)	AMS-DTL-23053/12

C. Engine Fire Detector Inspection

SUBTASK 26-11-01-212-001

- (1) Make sure that there is no contact between the forward transponder of the upper fan case engine fire/overheat detector and the strut insulation blanket (detail F of Figure 26-11-01-990-801).

SUBTASK 26-11-01-300-001

- (2) If there is contact and the wire insulation is damaged, repair the wire as described below and change the routing of the wire as shown on detail F of Figure 26-11-01-990-801.
 - (a) If no contact is found and the wires are routed as shown on detail F of Figure 26-11-01-990-801, no further action is required.

SUBTASK 26-11-01-030-001

- (3) Disconnect the lug from the fire/overheat transponder.

SUBTASK 26-11-01-300-002

- (4) Cut a sufficient length of TFE-R 5/8-X tubing, G50541 or TFE-R-1/2-X tubing, G50544 to cover the worn area. The sleeve must be long enough to exceed the length of the damage by approximately 0.4 in. (10.2 mm).

SUBTASK 26-11-01-300-003

- (5) Heat the sleeve at 700°F (371°C) maximum until shrinking operation is completed.

SUBTASK 26-11-01-430-001

- (6) Reconnect the lug on the fire detection transponder.
 - (a) For MW3016 detector, make sure the minimum clearance between the fire detection wires and strut insulation bracket is 0.15 in. (3.81 mm) (Figure 26-11-01-990-801).

———— END OF TASK ————

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ENGINE FIRE DETECTOR HARNESS - REMOVAL/INSTALLATION

1. General

- A. The fan fire detection harnesses are MW0315 and MW0316. The core fire detection harnesses are the MW0325 and MW0326. Both of the fan harnesses connect to one loop of the two fan fire detectors. Similarly, each core harness connects to one loop of the two core detectors.
- B. This procedure has these tasks:
 - (1) The removal of the fan fire detection harnesses (MW0315 and MW0316).
 - (2) The installation of the fan fire detection harnesses (MW0315 and MW0316).
 - (3) The removal of the core fire detection harnesses (MW0325 and MW0326 harnesses).
 - (4) The installation of the core fire detection harnesses (MW0325 and MW0326 harness).

TASK 26-11-02-000-801

2. Fan Fire Detection Harness Removal

(Figure 401)

A. General

- (1) The removal procedure for harness MW0315 and MW0316 is the same.
- (2) MW0315 is a component of loop A of the engine fan fire detection circuit.
- (3) MW0316 is a component of loop B of the engine fan fire detection circuit.

B. References

Reference	Title
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)

C. Location Zones

Zone	Area
411	Engine 1 - Engine
421	Engine 2 - Engine

D. Prepare for the Removal

SUBTASK 26-11-02-040-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-02-010-001

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSERS: RETRACT THE LEADING EDGE, DEACTIVATE THE LEADING EDGE, DEACTIVATE THE THRUST REVERSERS (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANEL. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (2) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

SUBTASK 26-11-02-010-002

- (3) Get access to the harness in the 3:00 o'clock strut as follows:

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- (a) Remove the screws [110] which attach the 3:00 O'clock strut fairing [111] to the 3:00 o'clock strut.
- (b) Remove the 3:00 O'clock strut fairing [111].
- (c) Remove the bolts [104] which attach the upper half-firewall [103] to the lower half-firewall [109].
- (d) Remove the upper half-firewall [103].
- (e) Remove the bolts [108] which attach the lower half-firewall [109] to the strut.
- (f) Remove the lower half-firewall [109].
- (g) Remove the bolts [106] and washers [107] which attach the 3:00 O'clock strut seal [105].
- (h) Remove the 3:00 O'clock strut seal [105].

E. Fan Fire Detection Harness Removal

SUBTASK 26-11-02-020-001

- (1) Fan fire detection harness removal:
 - (a) Disconnect the harness connector from the core fire detection harness receptacle.
 - (b) Disconnect the harness connector from the pylon receptacle.
 - (c) Remove the nut [114] and washer [115] which attach the two terminal lugs of each harness to the fan fire detectors.
 - (d) Remove the bolt [112] and washer [113] which attach each ground lug of the harness to the engine bracket.
 - (e) Loosen the quarter turn bolt and open the hinged clamp [116] which attach each harness to the engine brackets.
 - (f) Disengage the harness from the omega clamps.
 - (g) Pull the flexible clamp with harness out of the 3:00 o'clock strut and disengage the harness.
 - (h) Pull the harness through the 3:00 o'clock strut.
 - (i) Remove the harness from the engine.

———— END OF TASK ————

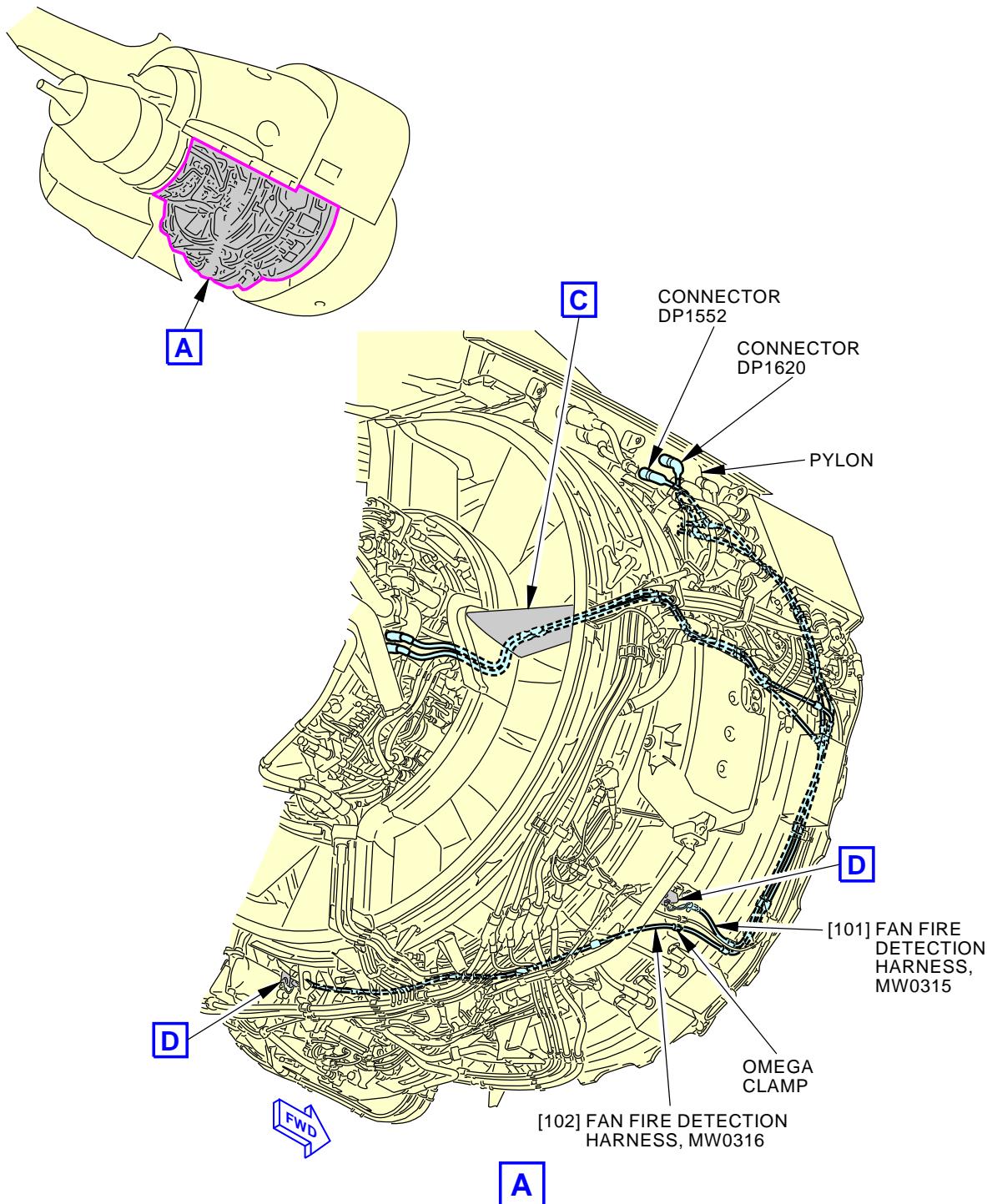
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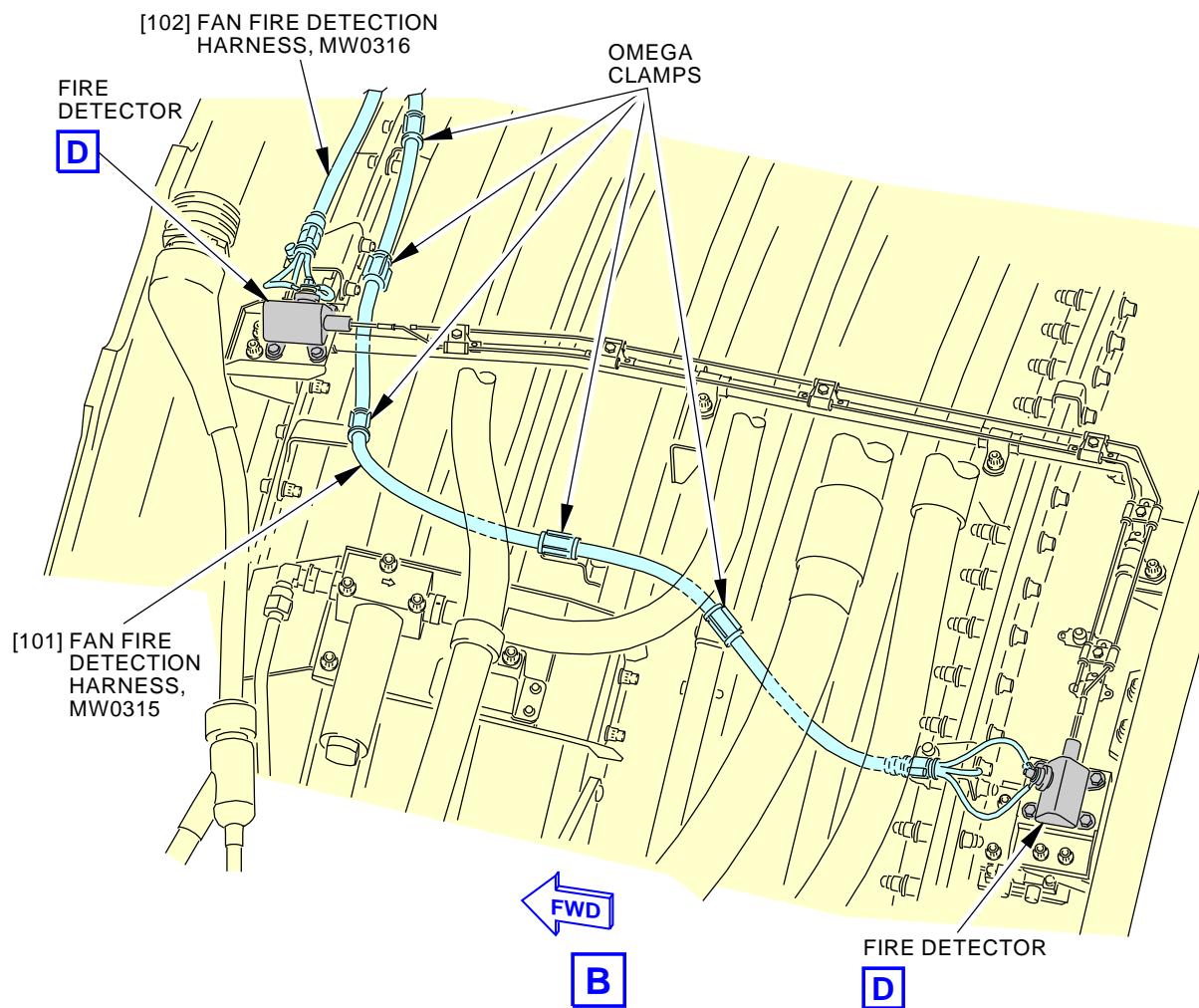
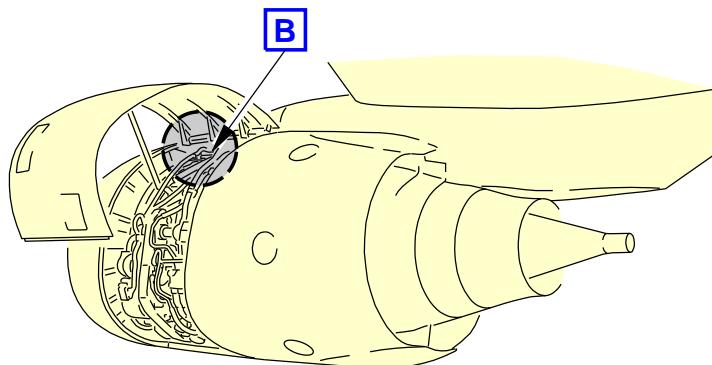
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Fan Fire Detection Harnesses Installation
Figure 401/26-11-02-990-801 (Sheet 1 of 4)

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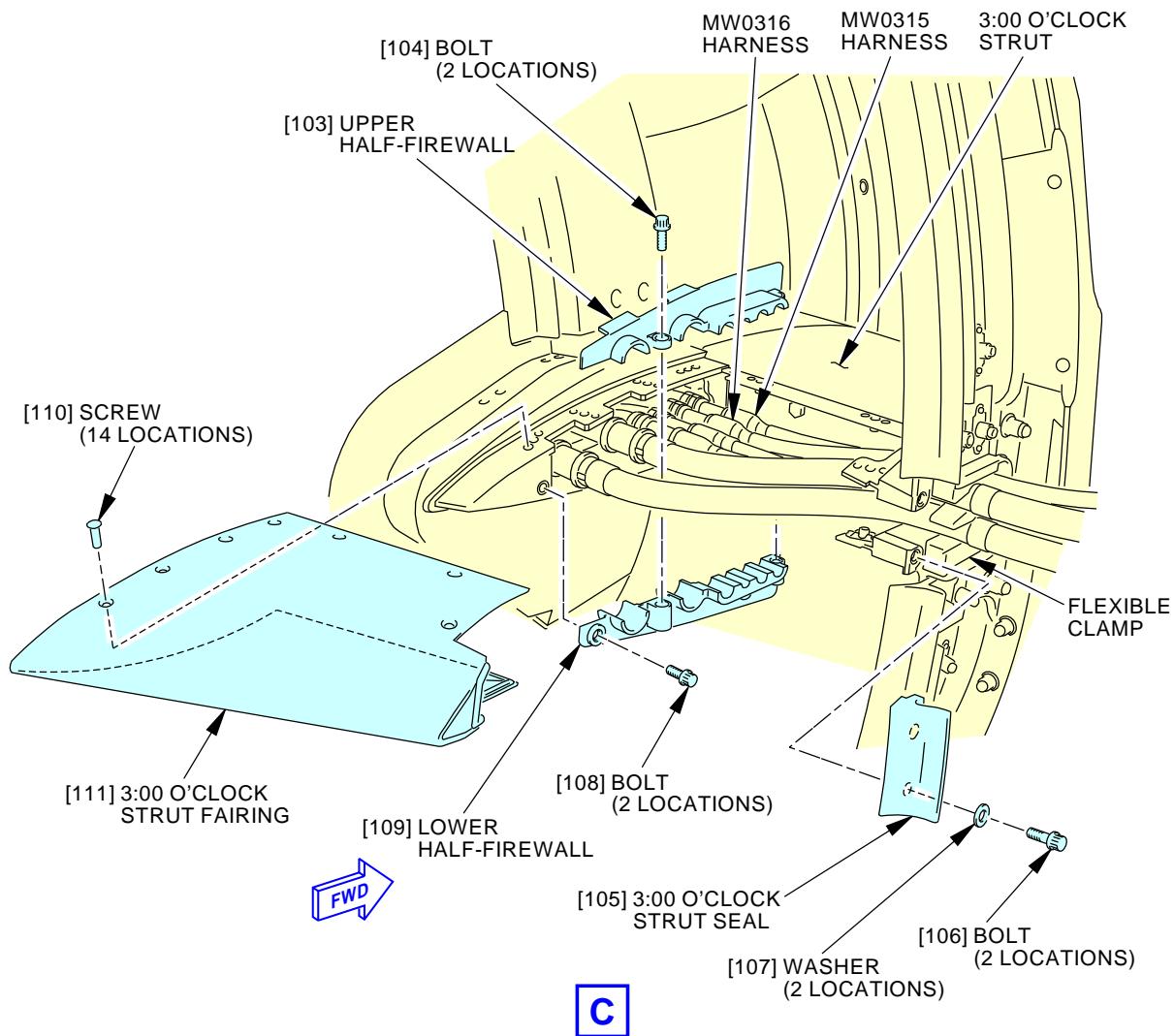
Fan Fire Detection Harnesses Installation
Figure 401/26-11-02-990-801 (Sheet 2 of 4)

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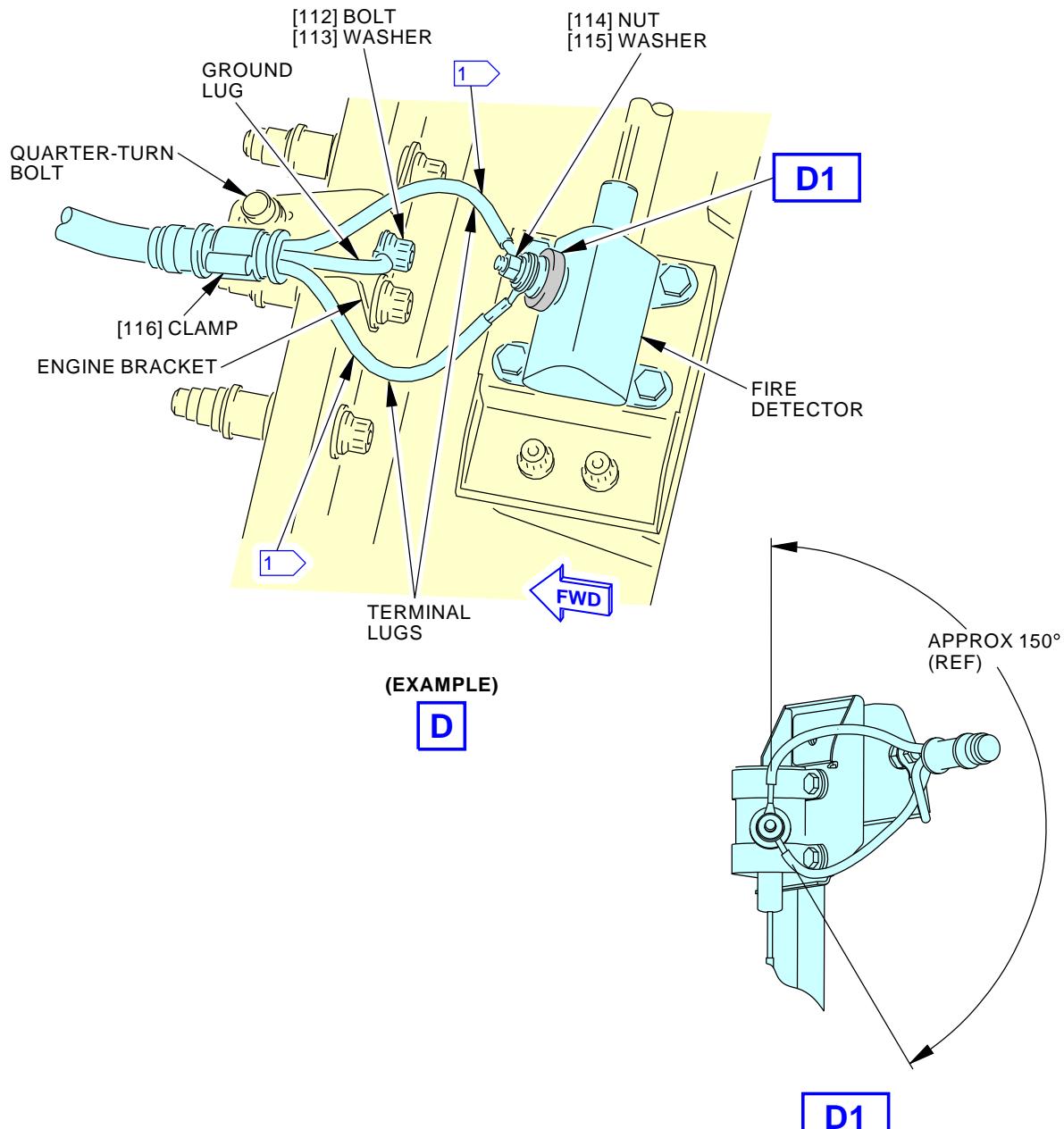
Fan Fire Detection Harnesses Installation
Figure 401/26-11-02-990-801 (Sheet 3 of 4)

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- 1** FOR DETECTOR MW0315, BEND WIRES DOWN AND AWAY FROM CONTACT WITH STRUT BLANKET. SEPARATE WIRES AS MUCH AS POSSIBLE. FOR DETECTOR MW0316, ADJUST THE WIRES AND SECURE PER SWPM 20-10-11 TO ACHIEVE A MINIMUM CLEARANCE OF 0.15 INCHES (3.81 mm) BETWEEN THE FIRE DETECTION WIRES AND THE STRUT INSULATION BRACKET.

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Fan Fire Detection Harnesses Installation
Figure 401/26-11-02-990-801 (Sheet 4 of 4)

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TASK 26-11-02-400-801

3. Fan Fire Detection Harness Installation

(Figure 401)

A. General

- (1) The installation procedure for MW0315 and MW0316 are the same.
- (2) MW0315 is a component of loop A of the engine fan fire detection circuit.
- (3) MW0316 is a component of loop B of the engine fan fire detection circuit.

B. References

Reference	Title
26-11-00-710-801	Engine Fire Detection - Operational Test (P/B 501)
78-31-00-010-804-F00	Close the Thrust Reverser (Selection) (P/B 201)

C. Consumable Materials

Reference	Description	Specification
D00601 [CP2101]	High-temperature graphite compound	SAE AMS 2518

D. Prepare for the Installation

SUBTASK 26-11-02-640-001

- (1) Lubricate the threads of bolts with graphite compound, D00601 [CP2101] before their installation.

SUBTASK 26-11-02-210-001

- (2) Make sure that the connectors and receptacles are clean and clear of unwanted materials.

SUBTASK 26-11-02-210-002

- (3) During the installation, make sure that the harnesses are not stressed or torn.

E. Fan Fire Detection Harness Installation

SUBTASK 26-11-02-420-001

- (1) Fan fire detection harness installation

- (a) Put the harness in position on the fan frame.
- (b) Install the harness through the 3:00 o'clock strut to the inside of the engine.
- (c) Distribute the slack all along the attachment points on the fan frame and in the 3:00 o'clock strut.
- (d) Connect the harness connector to the core fire detection harness receptacle. Tighten by hand.
- (e) Connect the harness connector to the pylon receptacle. Tighten by hand.
- (f) Attach the two terminal lugs of the harness to each fan fire detector, with the washer [115] and nut [114].

NOTE: If the leads are different sizes, install the lead with the small hole under the lead with the large hole.

- 1) Tighten the nut to 25.00 in-lb (2.82 N·m) to 35.00 in-lb (3.95 N·m).
- (g) Attach the ground lug of the harness to each engine bracket, with the washer [113] and bolt [112].
 - 1) Tighten the bolts to 98 in-lb (11 N·m) to 110.0 in-lb (12.4 N·m).
- (h) Attach the harness to each engine bracket with the hinged clamp [116] and tighten the bolt.

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- (i) Install the harness in the flexible clamp at the 3:00 o'clock strut location.
- (j) Engage the harness in the omega clamps.

SUBTASK 26-11-02-410-001

- (2) Close the access to the 3:00 o'clock position strut as follows:
 - (a) Attach the 3:00 O'clock strut seal [105] with washers [107] and bolts [106].
 - 1) Tighten the bolts [106] to 72.0 in-lb (8.1 N·m) to 88.0 in-lb (9.9 N·m).

CAUTION: MAKE SURE THAT THE HARNESS ARE IN THE CORRECT POSITION IN THE FIRE WALL PASSAGE HOLES.

- (b) Install the lower half-firewall [109] and attach it to the strut with the bolts [108].
 - 1) Tighten the bolts [108] to 72.0 in-lb (8.1 N·m) to 88.0 in-lb (9.9 N·m).
- (c) Install the upper half-firewall [103] and attach it to the lower half fire wall with the bolts [104].
 - 1) Tighten the bolts [104] to 72.0 in-lb (8.1 N·m) to 88.0 in-lb (9.9 N·m).
- (d) Install the 3:00 O'clock strut fairing [111] and attach it with the screws [110] to the 3:00 o'clock strut.

F. Fan Fire Detection harness Installation Test

SUBTASK 26-11-02-440-001

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-02-710-001

- (2) Do this task: Engine Fire Detection - Operational Test, TASK 26-11-00-710-801.

G. Put the Airplane Back to its Usual Condition

SUBTASK 26-11-02-010-003

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Close the Thrust Reverser (Selection), TASK 78-31-00-010-804-F00.

———— END OF TASK ————

TASK 26-11-02-000-802

4. Core Fire Detection Harnesses Removal

(Figure 402 or Figure 403 or Figure 404)

A. General

- (1) Core Fire Detection Harness, MW0325 [33], is a component of loop A of the engine core fire detection circuit.
- (2) Core Fire Detection Harness, MW0326 [31], is a component of loop B of the engine core fire detection circuit.



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B. References

Reference	Title
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)

C. Prepare for Removal

SUBTASK 26-11-02-040-009

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-02-010-010

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSERS: RETRACT THE LEADING EDGE, DEACTIVATE THE LEADING EDGE, DEACTIVATE THE THRUST REVERSERS (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANEL. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (2) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

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D. Core Fire Detection Harness Removal

SUBTASK 26-11-02-020-011

- (1) Core fire detection harness removal:

- (a) Disconnect the fan fire detection harness connector from the core fire detection harness receptacle.
- (b) Remove the two Bolts [35] which attach each harness receptacle to the Engine Bracket [34].
- (c) Remove the Washer [15] and Nut [14] which attach the Terminal Lugs [20] to each core fire detector.

| AKS ALL PRE SB 737-CFM56-7B-72-0258 AND PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

- (d) Remove the Washer [18] and Bolt [17] which attach the Ground Lug [19] to the Engine Bracket [34].

| AKS ALL PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

- (e) Loosen the bolt [36] and release the Hinged Clamp [16] which attaches each harness to the Engine Bracket [34].
- (f) Loosen the bolts [36] and release the Hinged Clamps [32] which attach the harness to the Engine Brackets [34].
- (g) Remove the bolts [36] which attach the harness to the Engine Bracket [34].
- (h) Remove the harness from the engine.

EFFECTIVITY

AKS ALL

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| AKS ALL POST SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

E. Core Fire Detection Harness Removal

SUBTASK 26-11-02-020-012

- (1) Core fire detection harness removal:
 - (a) Remove the Bolt [2] and Self -Locking Nut [3] which attach the Loop Clamp [4] to the L Bracket [5] at two locations.
 - (b) Disconnect the fan fire detection harness connectors from the core fire detection harness connectors at the cable mounting bracket [1].
 - (c) Disconnect the core fire detection harness at each detector.
 - 1) Remove the Terminal Nut [6] from the Detector Bracket [7].
 - 2) Remove the Screw [8] and Nut [9] from the Detector Bracket [7].
 - 3) Remove the Ground Strap [11] from the core fire detection cable.
 - (d) Disconnect the Bolts [2] and Self -Locking Nuts [3] on the Loop Clamps [4] at all other places along the length of the harness.
 - (e) Remove all the Loop Clamps [4], Cable Bushings [10] and Teflon Inserts [12] along the length of the harness.
 - (f) Remove the harness from the engine.

| AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST SB 737-CFM56-7B-72-0981

F. Core Fire Detection Harness Removal

(Figure 402 or Figure 403 or Figure 404)

SUBTASK 26-11-02-020-013

- (1) Disconnect the fan fire detection harness connectors, MW0315 and MW0316, from the core fire detection harness receptacles.

SUBTASK 26-11-02-020-015

- (2) Core fire detection MW0325 harness removal:
 - (a) Remove the bolt [72] and the washer [56] which attach the ground strap [59] to the core engine and remove the nut [57] and the washer [58] which attach the terminal lug [45] to the fire detector (Figure 404 (Sheet 8) view E).
 - (b) Remove the bolt [64] which attaches the clamp [62] to the core engine (Figure 404 (Sheet 8) view E).
 - (c) Remove the bolt [70] and the washer [38] which attach the ground strap [60] to the core engine and remove the nut [53] and the washer [71] which attach the terminal lug [44] to the fire detector (Figure 404 (Sheet 7) view F).
 - (d) Remove the bolt [36] which attaches the clamp [39] to the core engine (Figure 404 (Sheet 7) view F).
 - (e) Remove the bolts [64] which attach the harness to the bracket [37] (Figure 404 (Sheet 9) view J).
 - (f) Remove the bolts [64] and the nut [40] which attach the clamp [39] to the core engine (Figure 404 (Sheet 9) view H).
 - (g) Remove the bolt [51] which attaches the clamp [42] to the bracket [63] (Figure 404 (Sheet 7) view G).
 - (h) Remove all the clamp [39], clamp [42] and clamp [62] along the length of the harness.
 - (i) Remove the harness from the engine.

EFFECTIVITY
AKS ALL

26-11-02



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AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST SB 737-CFM56-7B-72-0981 (Continued)

SUBTASK 26-11-02-020-016

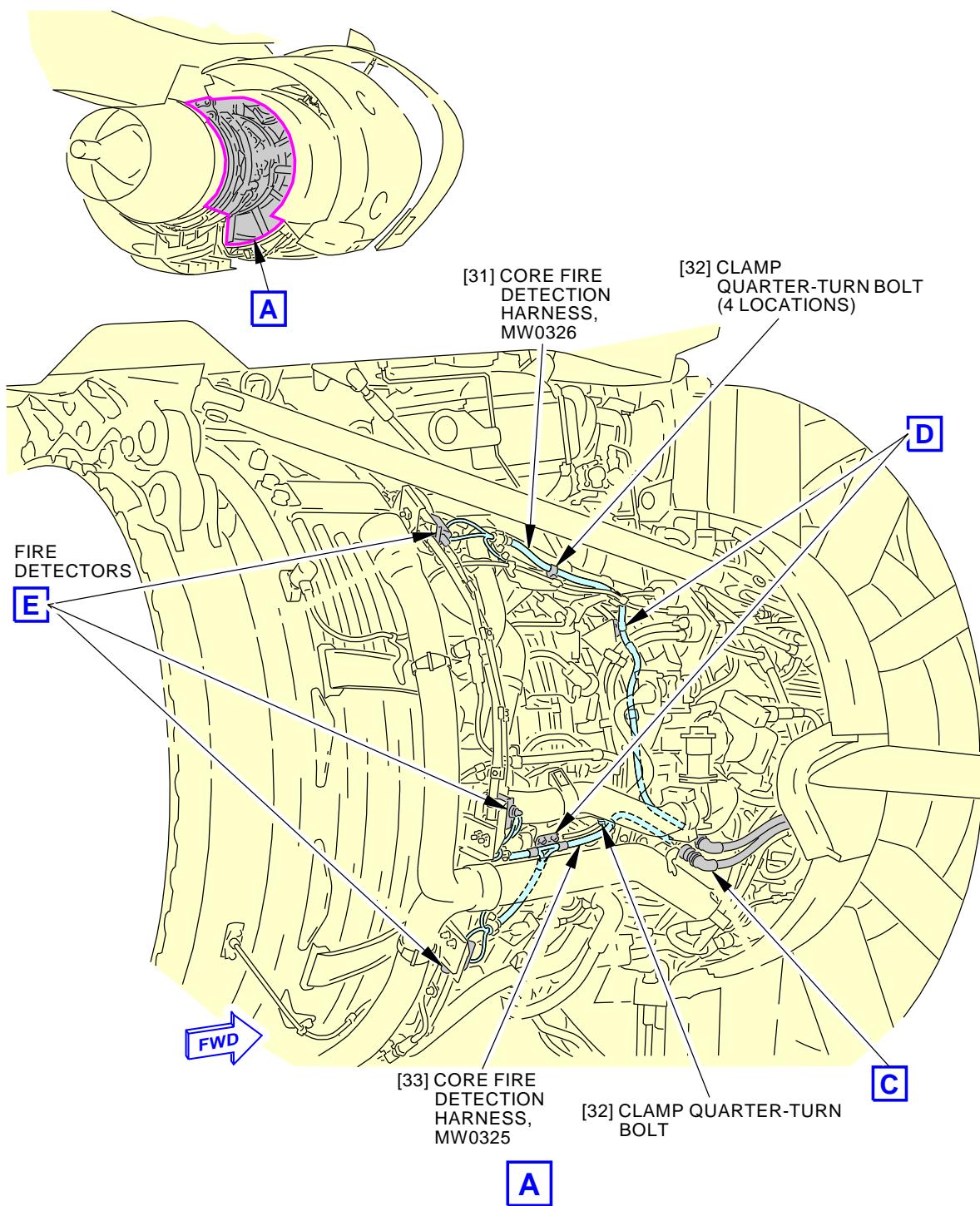
(3) Core fire detection MW0326 harness removal:

- (a) Remove the bolt [48] and the washer [49] which attach the ground strap [54] to the bracket [43] and remove the nut [69] and the washer [50] which attach the terminal lug [52] to the fire detector (Figure 404 (Sheet 3), View P).
- (b) Remove the bolt [64] which attaches the clamp [61] to the bracket [43] (Figure 404 (Sheet 3), View P).
- (c) Remove the bolt [67] and the washer [38] which attach the ground strap [55] to the core engine and remove the nut [68] and the washer [46] which attach the terminal lug [66] to the fire detector (Figure 404 (Sheet 4), View V).
- (d) Remove the bolt [47] which attaches the clamp [39] to the bracket [41] (Figure 404 (Sheet 4), View V).
- (e) Remove the bolts [64] which attach the harness to the bracket [37] (Figure 404 (Sheet 6), View W).
- (f) Remove the bolt [64] which attaches the clamp [39] to the core engine (Figure 404 (Sheet 5), View K).
- (g) Remove the bolt [64] which attaches the clamp [39] to the bracket [65] (Figure 404 (Sheet 3), View L).
- (h) Remove the bolt [64] which attaches the clamp [39] to the core engine (Figure 404 (Sheet 5), View M).
- (i) Remove the bolt [64] which attaches the clamp [39] to the core engine (Figure 404 (Sheet 5), View Q).
- (j) Remove the bolt [64] which attaches the clamp [39] to the core engine (Figure 404 (Sheet 5), View N).
- (k) Remove the bolt [64] which attaches the clamp [39] to the core engine (Figure 404 (Sheet 5), View R).
- (l) Remove the bolt [64] which attaches the clamp [39] to the core engine (Figure 404 (Sheet 6), View S).
- (m) Remove the bolt [64] which attaches the clamp [39] to the core engine (Figure 404 (Sheet 6), View T).
- (n) Remove the bolt [64] which attaches the clamp [39] to the core engine (Figure 404 (Sheet 6), View U).
- (o) Remove all the clamp [39] and clamp [61].
- (p) Remove the harness from the engine.

———— END OF TASK ———

EFFECTIVITY
AKS ALL

26-11-02

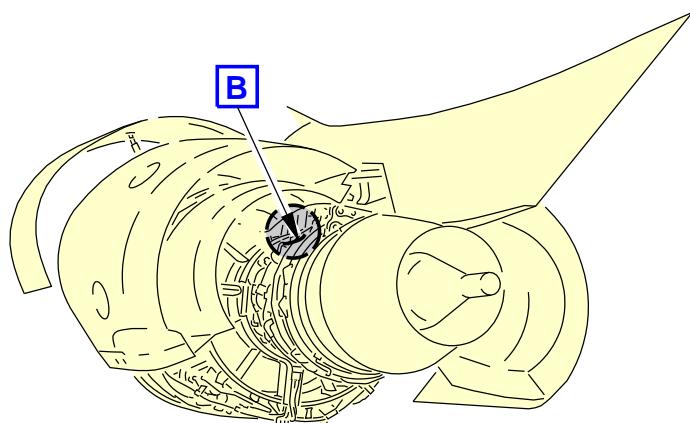


G19272 S0006568053_V2

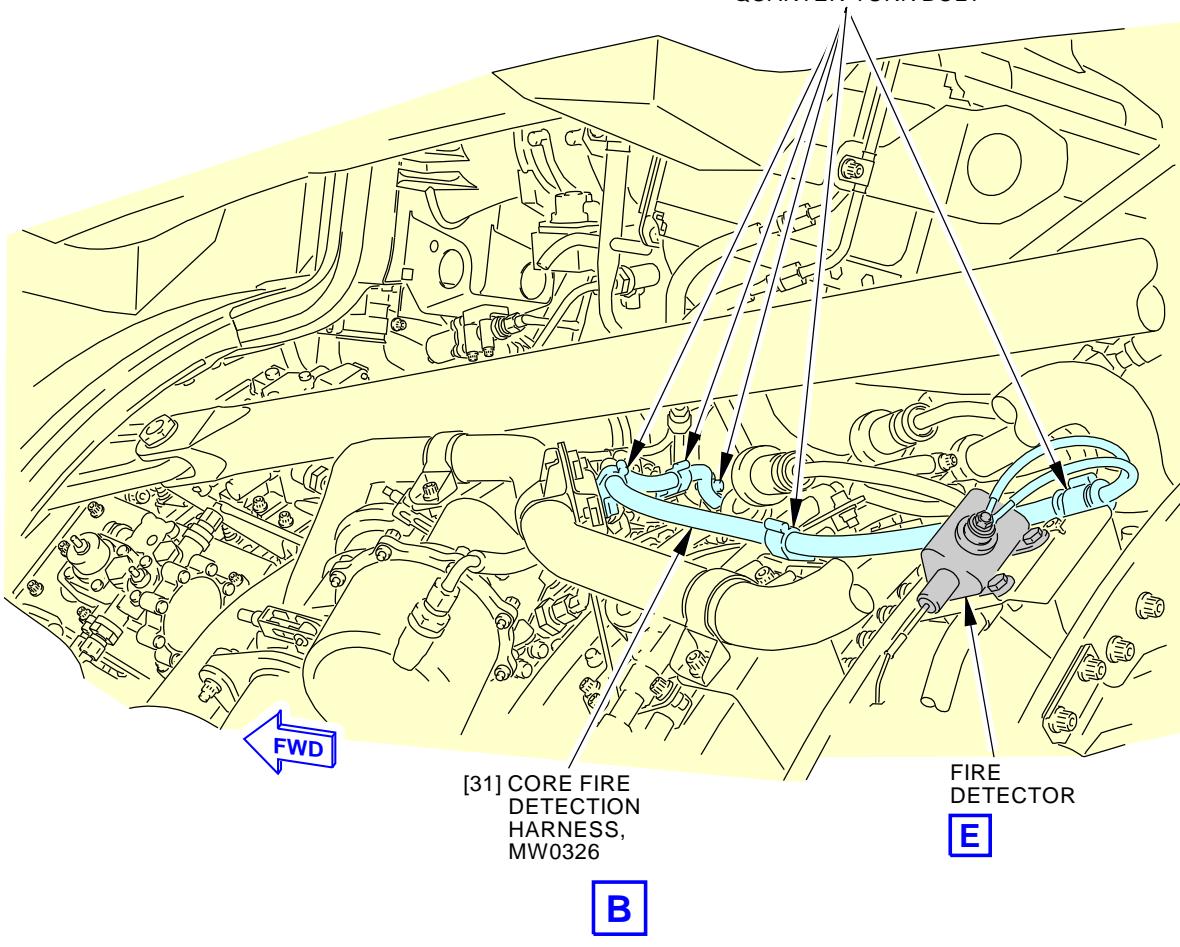
Core Fire Detection Harnesses Installation
Figure 402/26-11-02-990-827 (Sheet 1 of 6)

EFFECTIVITY
AKS ALL PRE SB 737-26-1123**26-11-02**

D633A101-AKS



[32] CLAMP QUARTER-TURN BOLT



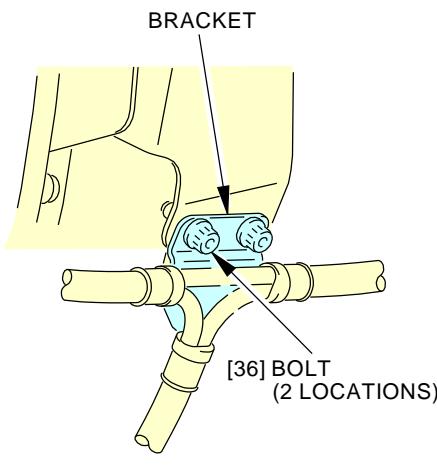
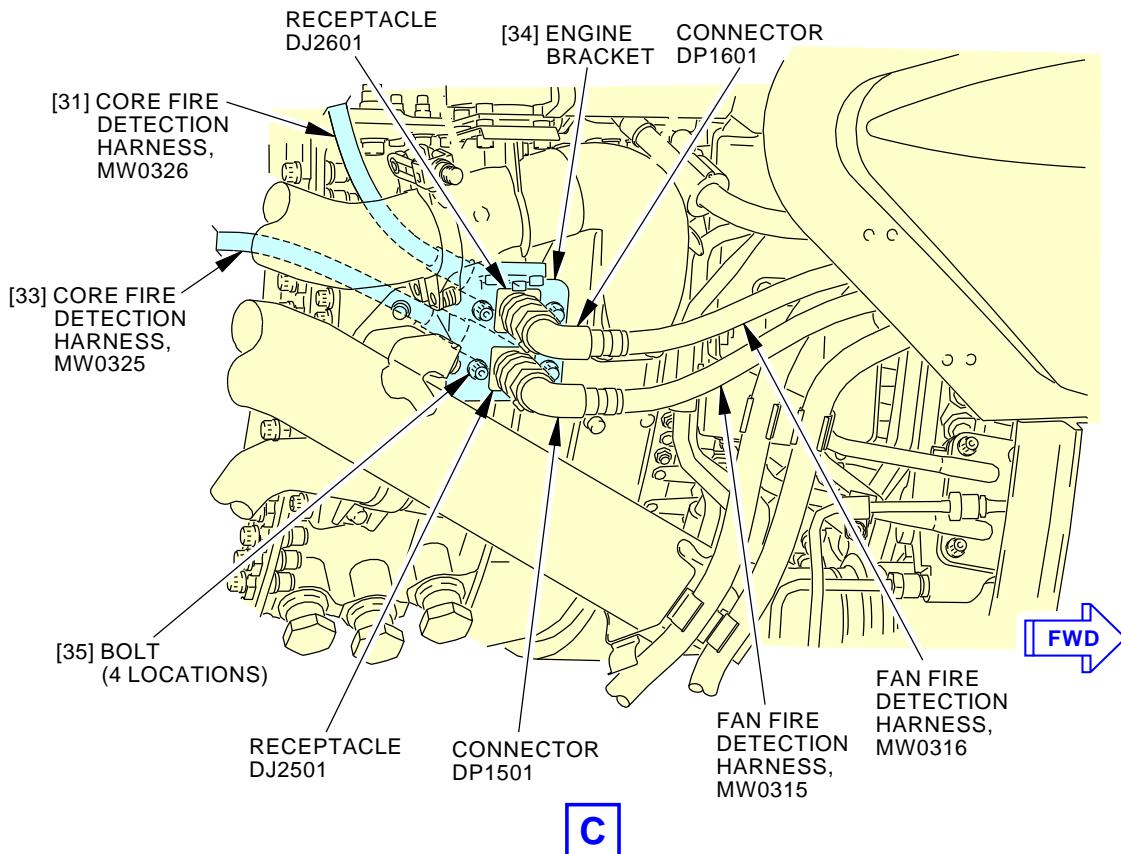
G19037 S0006568054_V2

Core Fire Detection Harnesses Installation
Figure 402/26-11-02-990-827 (Sheet 2 of 6)EFFECTIVITY
AKS ALL PRE SB 737-26-1123**26-11-02**

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G21635 S0006568055_V3

Core Fire Detection Harnesses Installation
Figure 402/26-11-02-990-827 (Sheet 3 of 6)

EFFECTIVITY
 AKS ALL PRE SB 737-26-1123

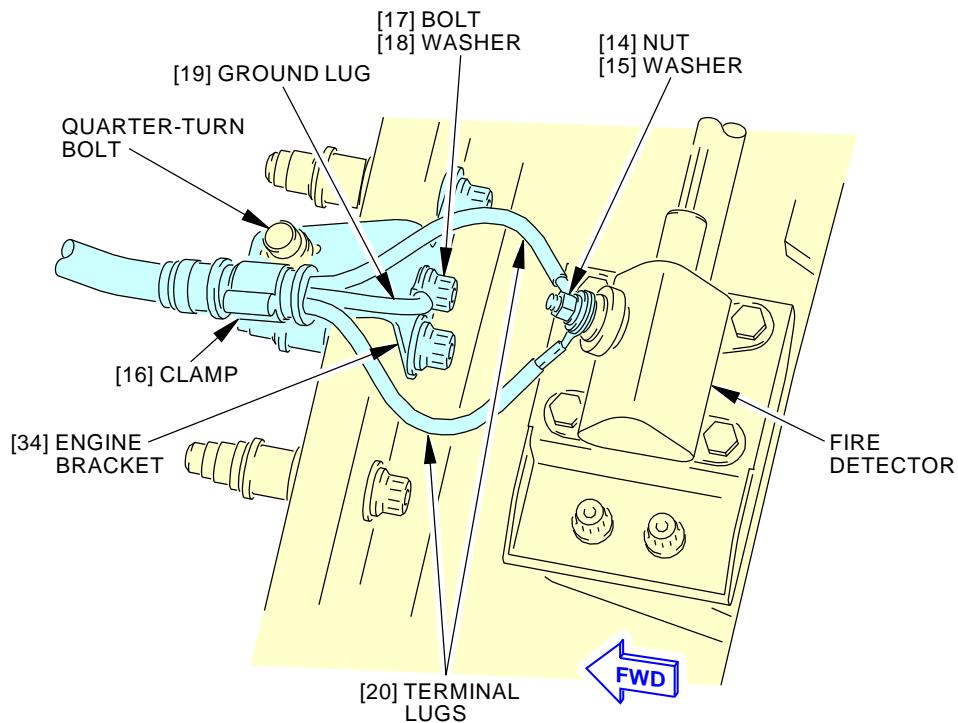
26-11-02

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(EXAMPLE)

E

1973360 S0000379215_V2

Core Fire Detection Harnesses Installation
Figure 402/26-11-02-990-827 (Sheet 4 of 6)

EFFECTIVITY
AKS ALL PRE SB 737-CFM56-7B-72-0258 AND PRE
SB 737-26-1123

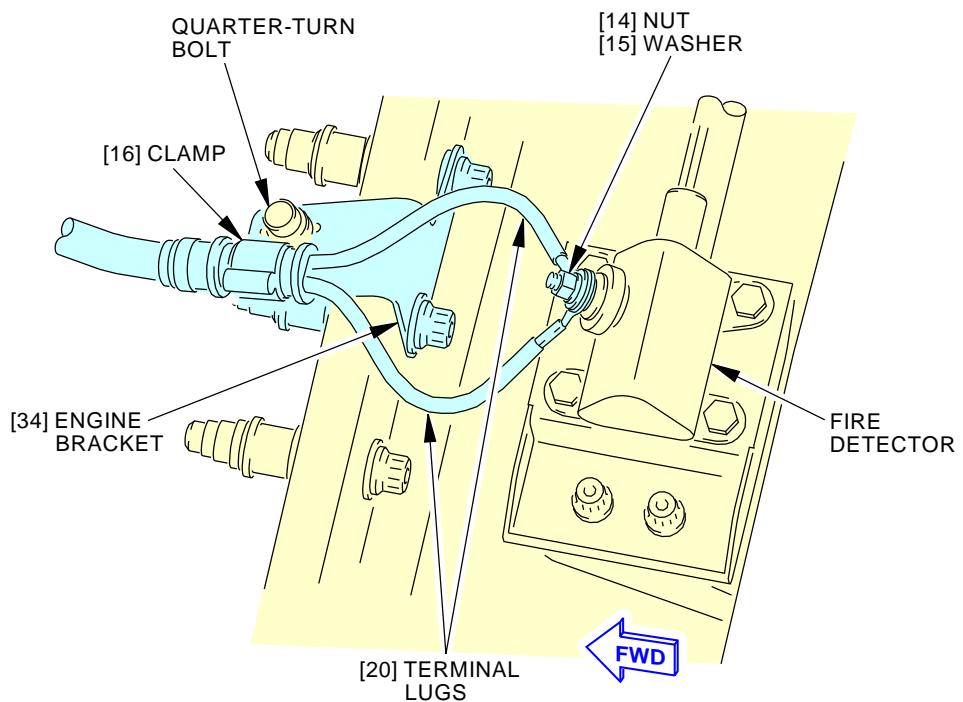
26-11-02

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AIRCRAFT MAINTENANCE MANUAL



(EXAMPLE)

E

1973347 S0000379216_V2

Core Fire Detection Harnesses Installation
Figure 402/26-11-02-990-827 (Sheet 5 of 6)

EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0258 AND PRE
SB 737-CFM56-7B-72-0759 AND PRE SB
737-CFM56-7B-72-0981 AND PRE SB 737-26-1123

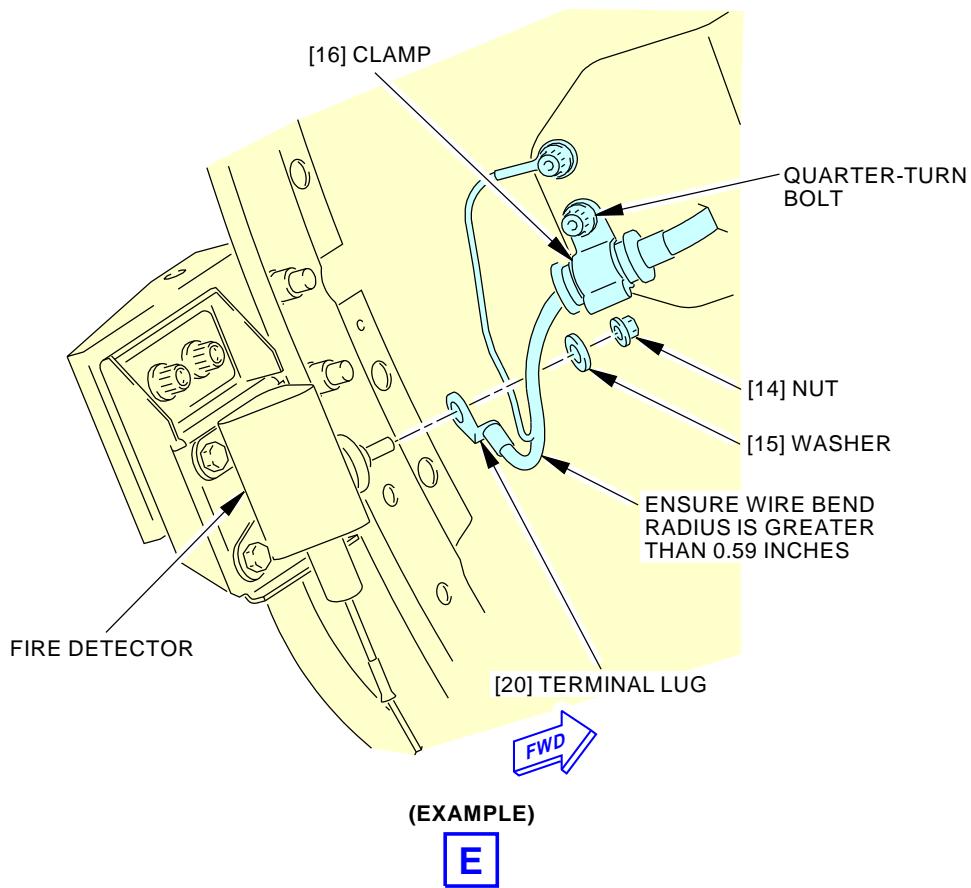
26-11-02

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2030684 S0000406315_V2

Core Fire Detection Harnesses Installation
Figure 402/26-11-02-990-827 (Sheet 6 of 6)

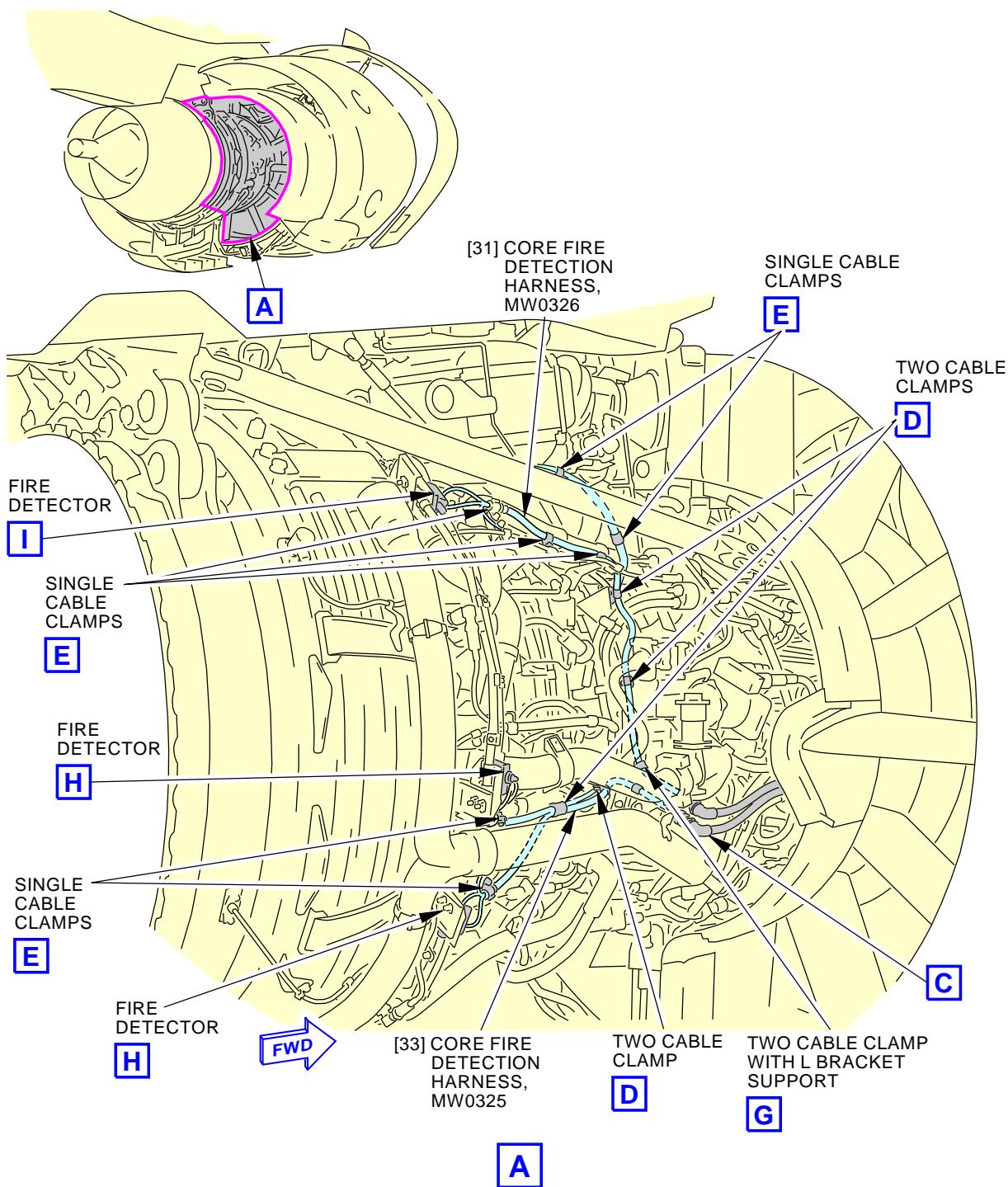
EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0258 AND
(POST SB 737-CFM56-7B-72-0759 OR POST SB
737-CFM56-7B-72-0981) AND PRE SB 737-26-1123

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1531887 S0000279291_V4

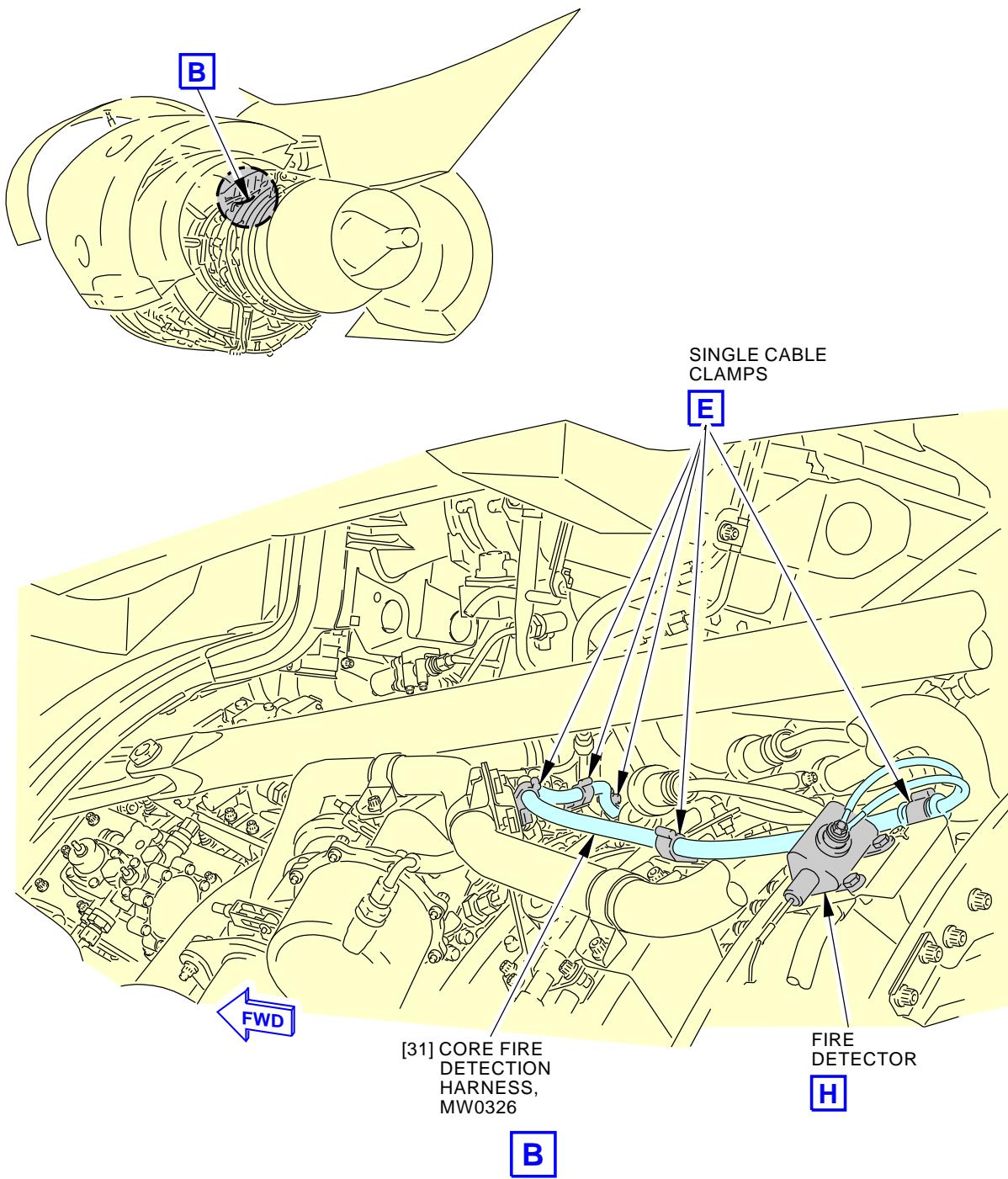
Core Fire Detection Harnesses Installation
Figure 403/26-11-02-990-828 (Sheet 1 of 4)

EFFECTIVITY
AKS ALL POST SB 737-26-1123

26-11-02

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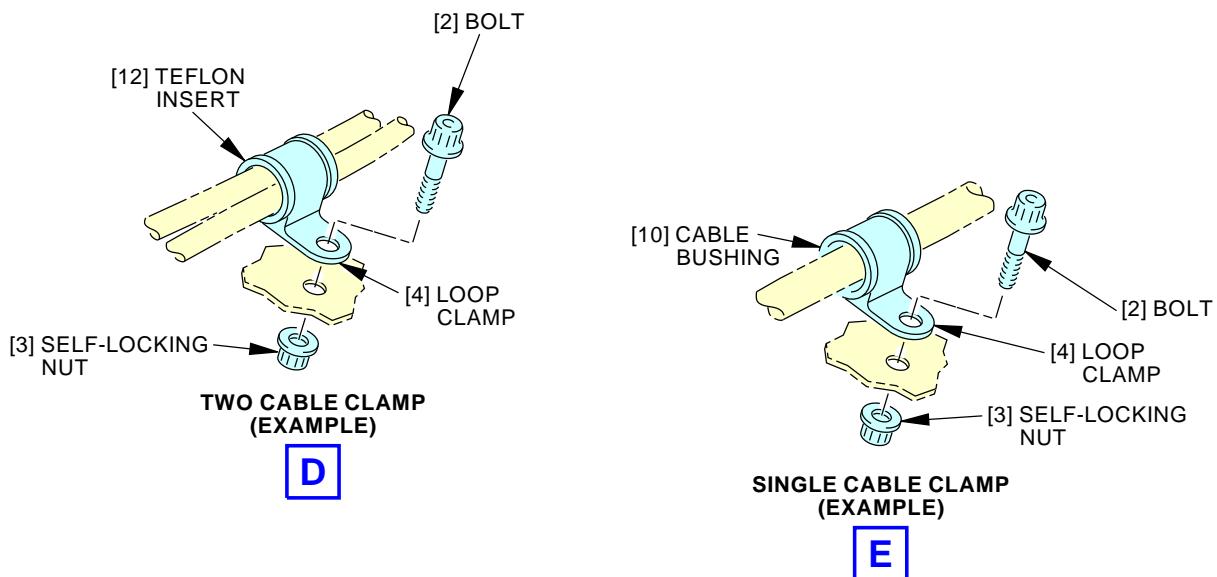
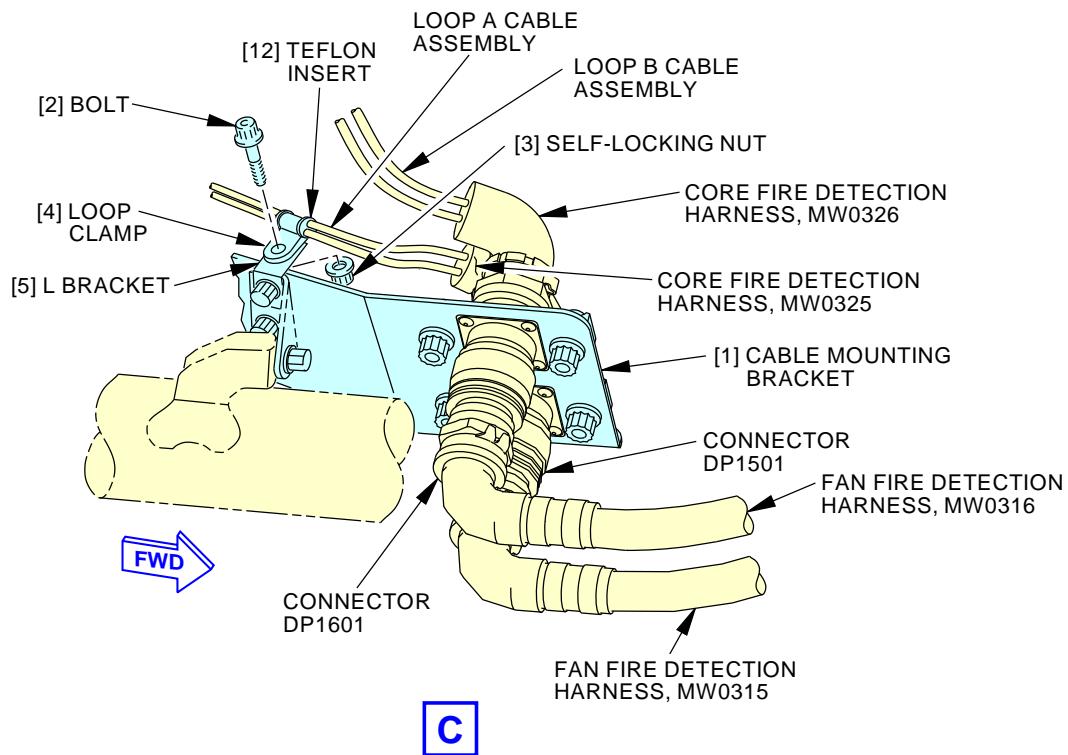


1532095 S0000279292_V2

Core Fire Detection Harnesses Installation
Figure 403/26-11-02-990-828 (Sheet 2 of 4)

EFFECTIVITY
AKS ALL POST SB 737-26-1123**26-11-02**

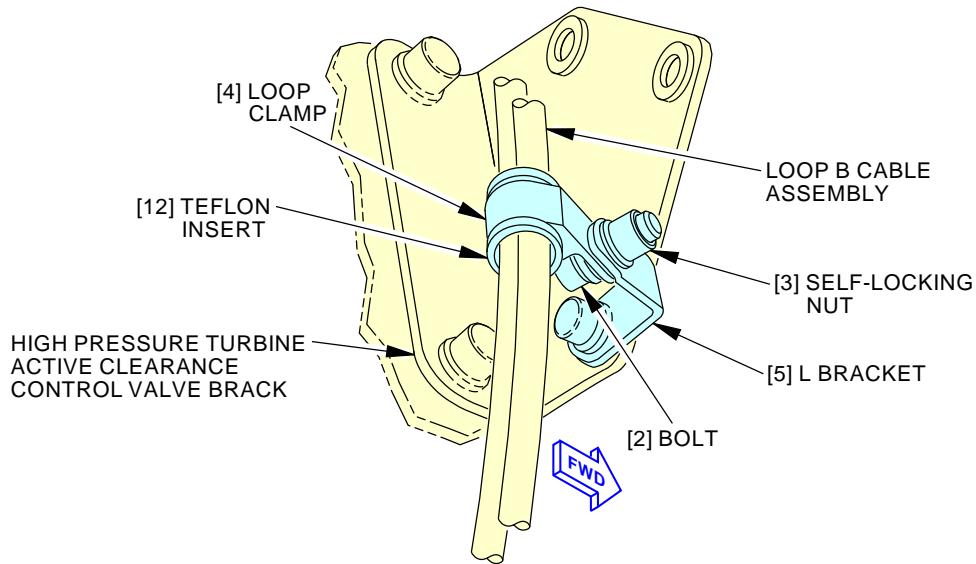
D633A101-AKS

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AIRCRAFT MAINTENANCE MANUAL**


1538709 S0000279293_V3

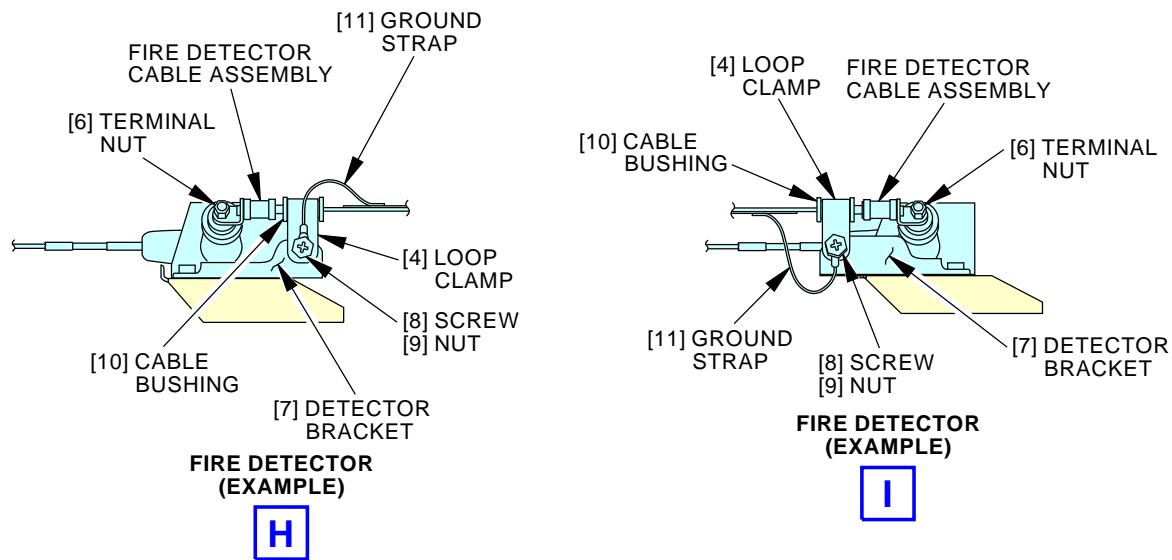
**Core Fire Detection Harnesses Installation
Figure 403/26-11-02-990-828 (Sheet 3 of 4)**

 EFFECTIVITY
AKS ALL POST SB 737-26-1123
26-11-02
D633A101-AKS



**TWO CABLE CLAMP WITH L
BRACKET SUPPORT**

G



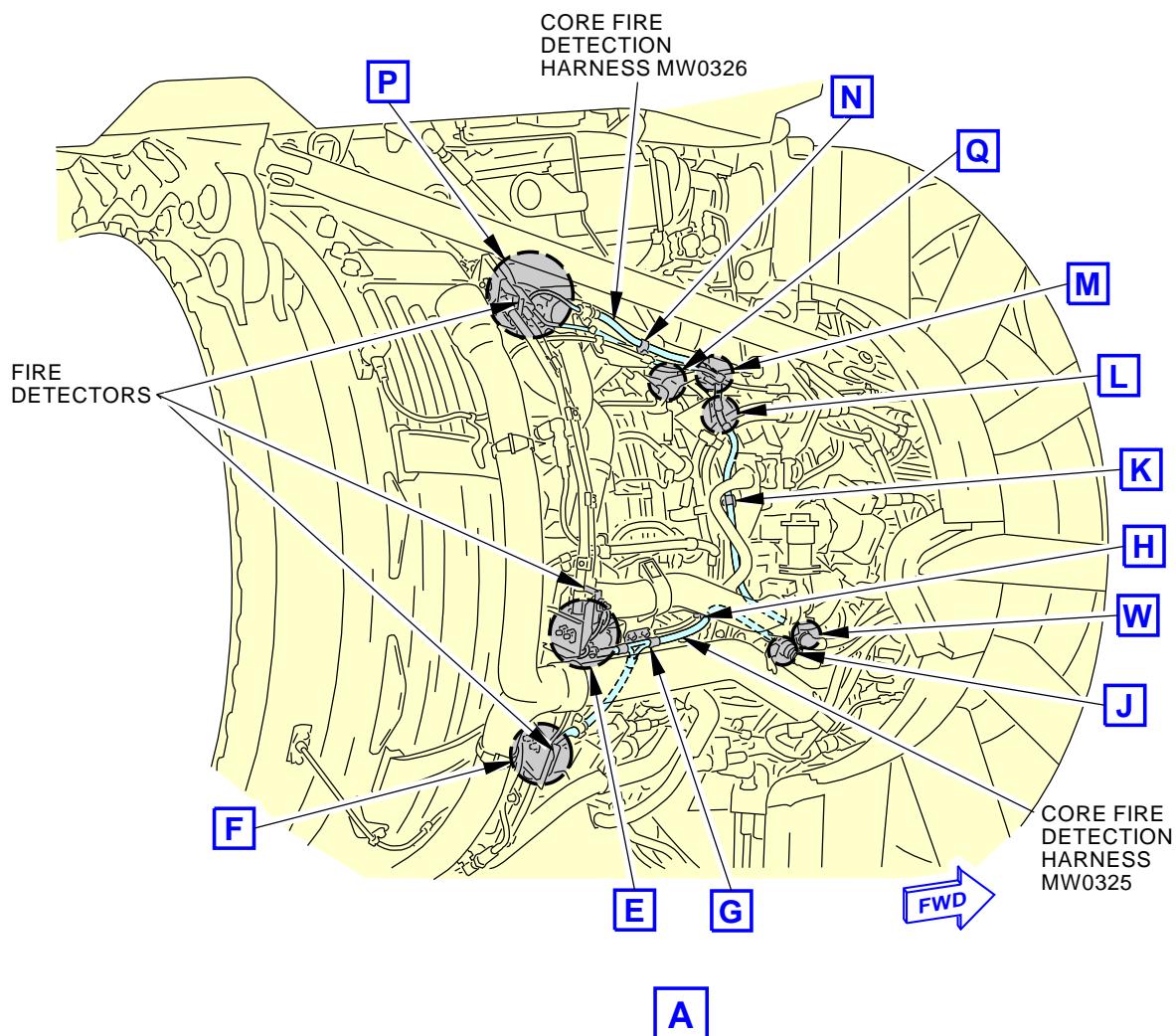
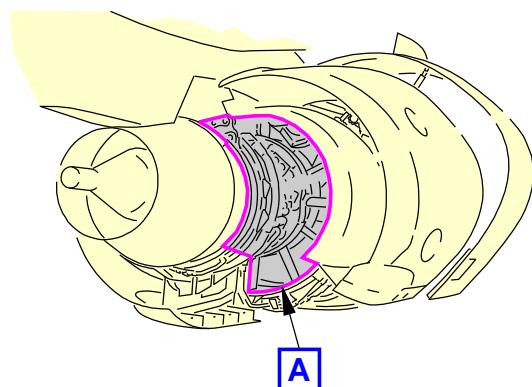
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**Core Fire Detection Harnesses Installation
Figure 403/26-11-02-990-828 (Sheet 4 of 4)**

EFFECTIVITY
AKS ALL POST SB 737-26-1123

26-11-02

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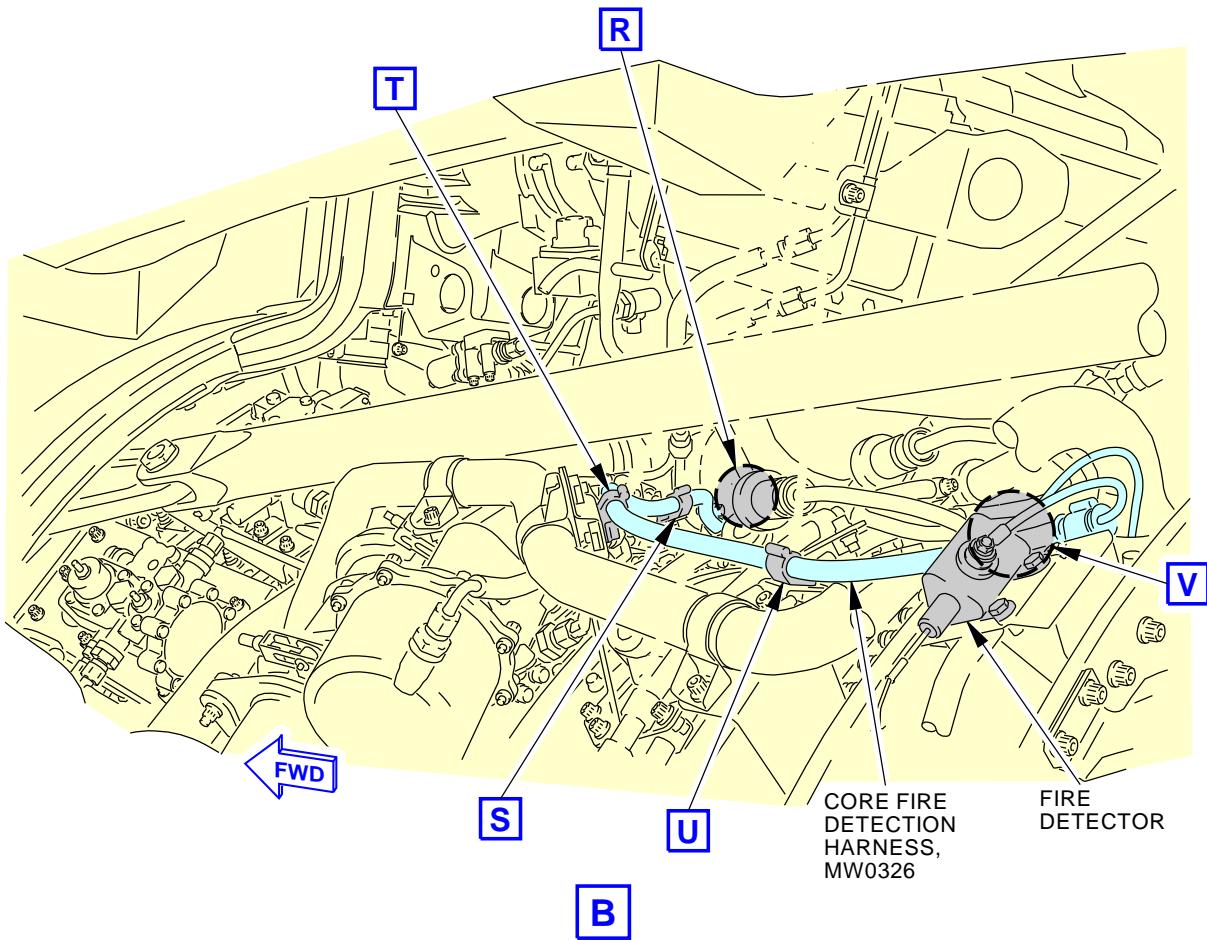
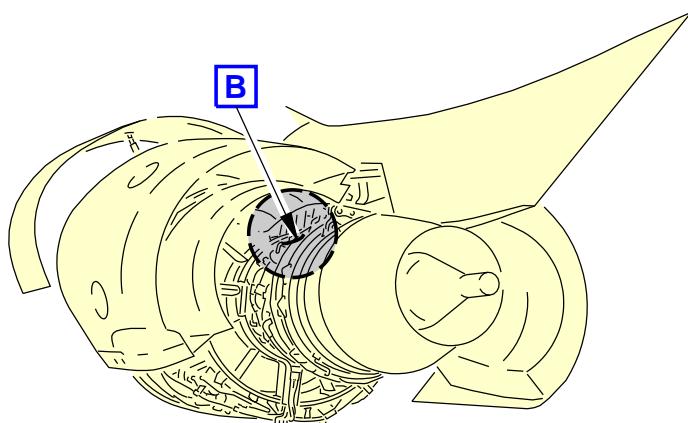
2086830 S0000439258_V2

Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 1 of 11)

EFFECTIVITY
 AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
 SB 737-CFM56-7B-72-0981

26-11-02

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2086853 S0000439260_V2

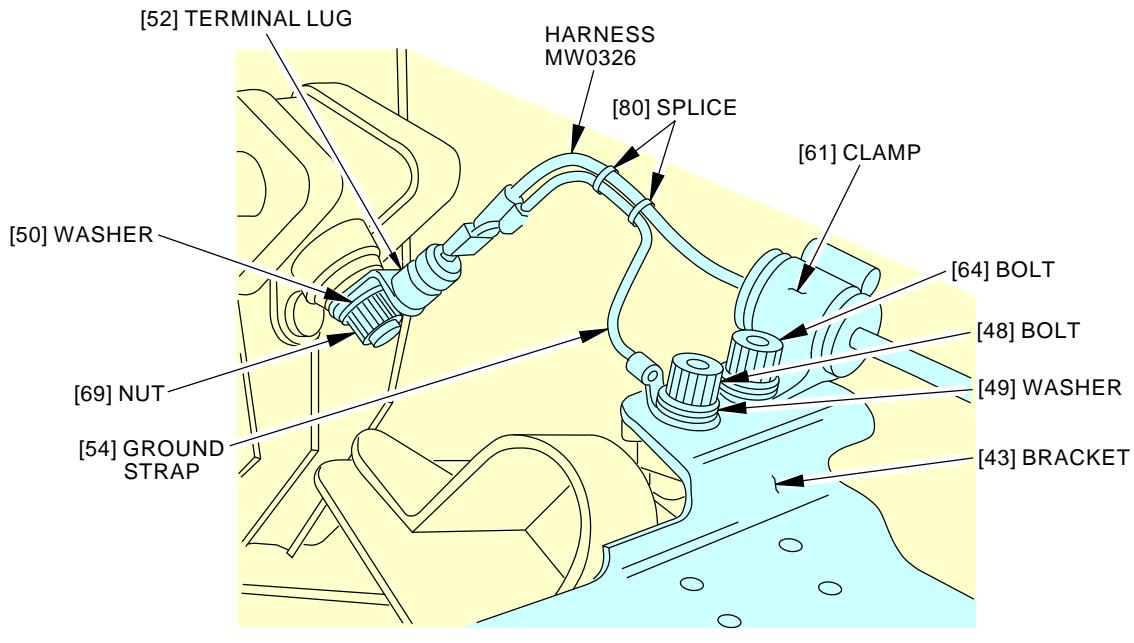
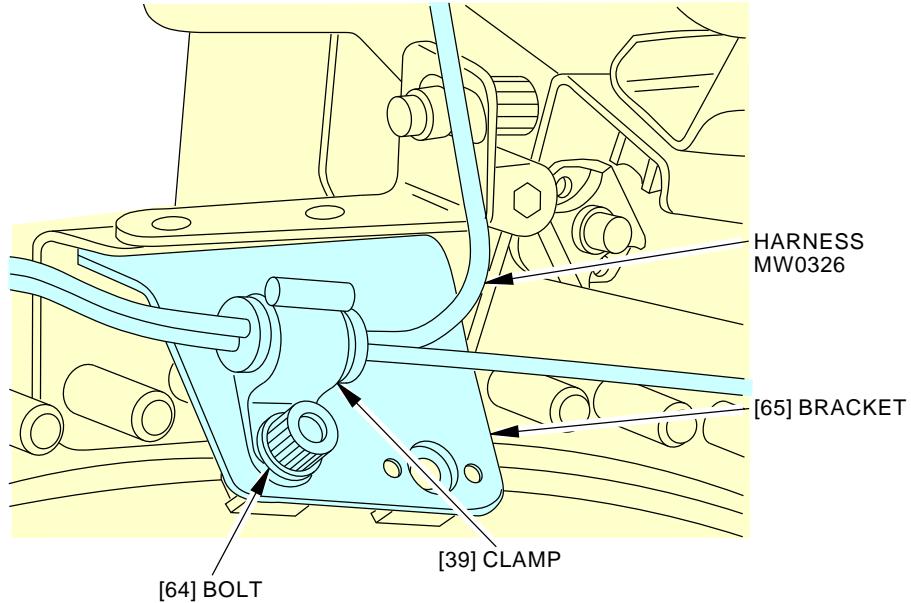
Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 2 of 11)

EFFECTIVITY
 AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
 SB 737-CFM56-7B-72-0981

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P

L

2086657 S0000439262_V4

Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 3 of 11)

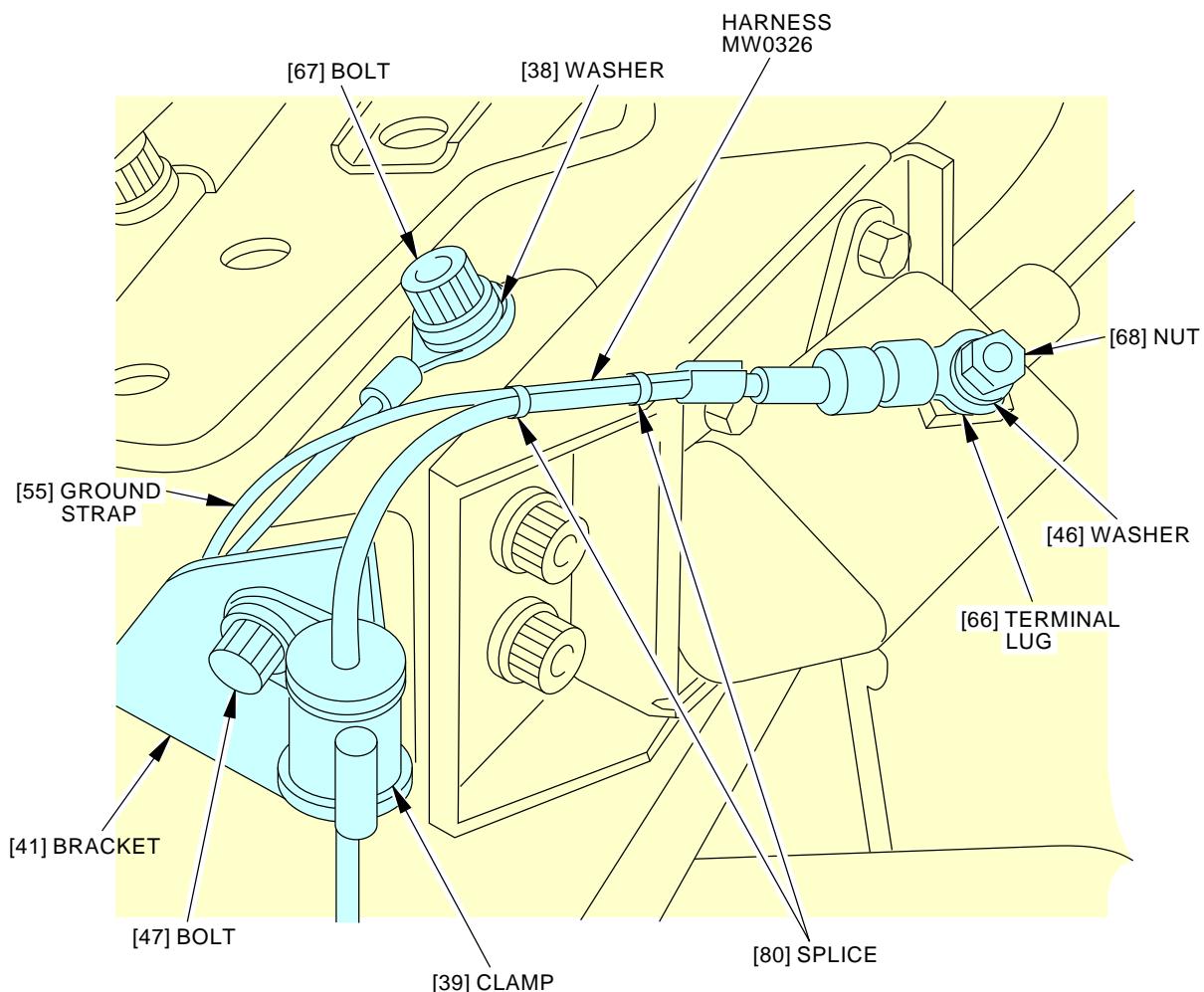
EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
SB 737-CFM56-7B-72-0981

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V

2086666 S0000439264_V4

Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 4 of 11)

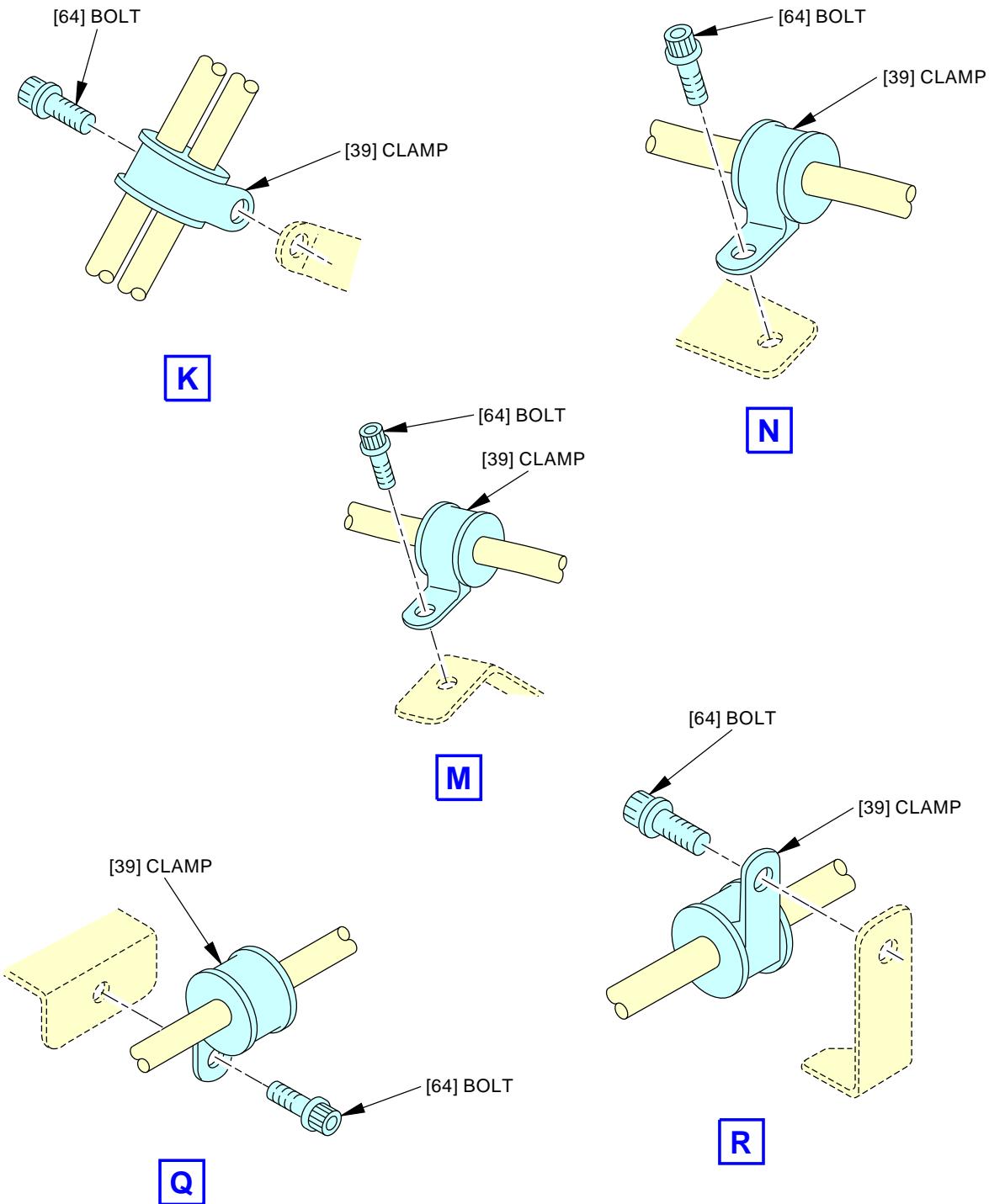
EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
SB 737-CFM56-7B-72-0981

26-11-02

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AIRCRAFT MAINTENANCE MANUAL



2086680 S0000439265_V2

Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 5 of 11)

EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
SB 737-CFM56-7B-72-0981

26-11-02

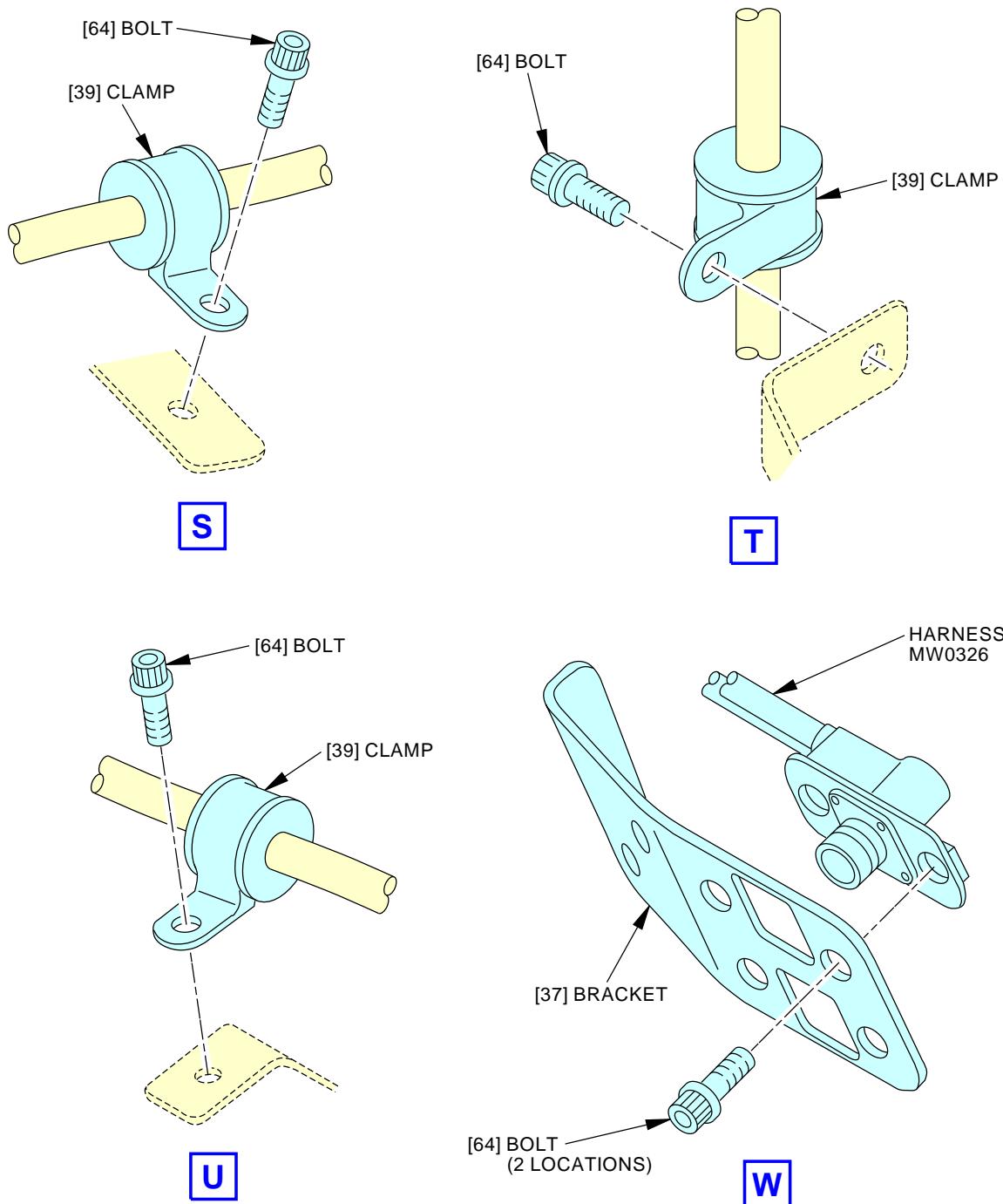
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2086704 S0000439266_V3

Core Fire Detection Harnesses Installation Figure 404/26-11-02-990-829 (Sheet 6 of 11)

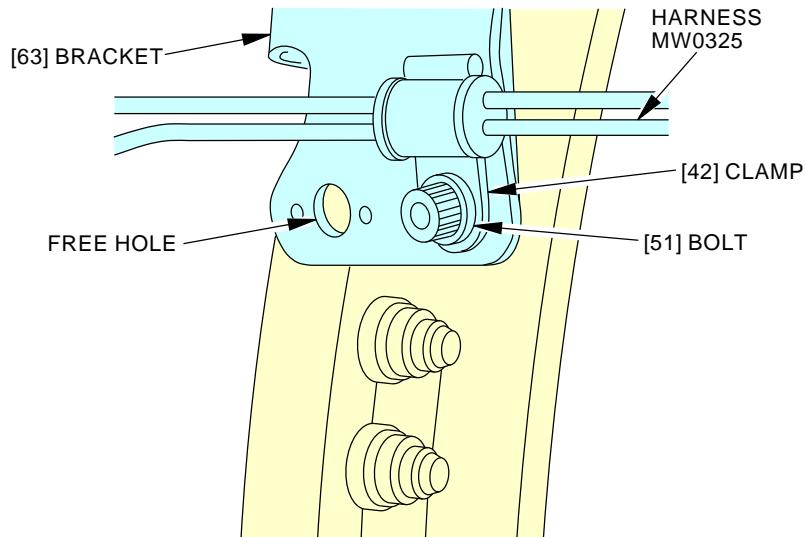
EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
SB 737-CFM56-7B-72-0981

26-11-02

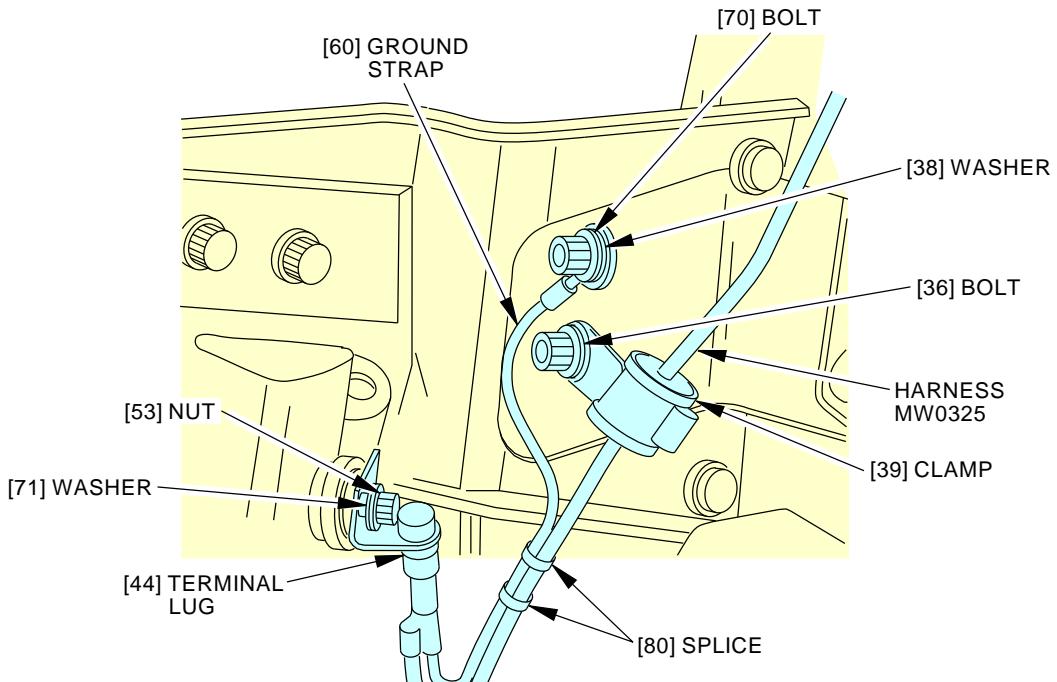
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AIRCRAFT MAINTENANCE MANUAL



G



F

2086732 S0000439267_V4

Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 7 of 11)

EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
SB 737-CFM56-7B-72-0981

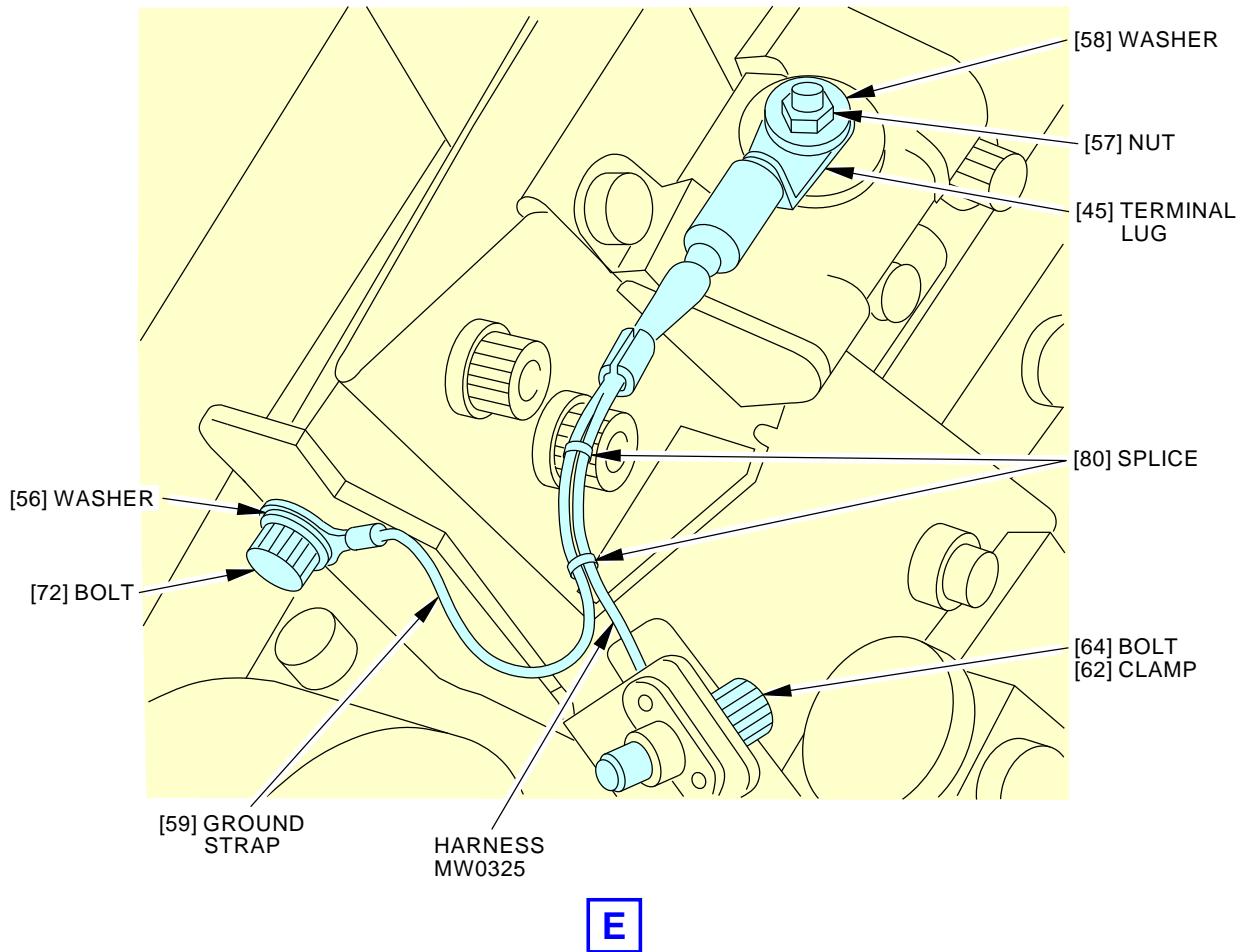
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2086738 S0000439268_V4

Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 8 of 11)

EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
SB 737-CFM56-7B-72-0981

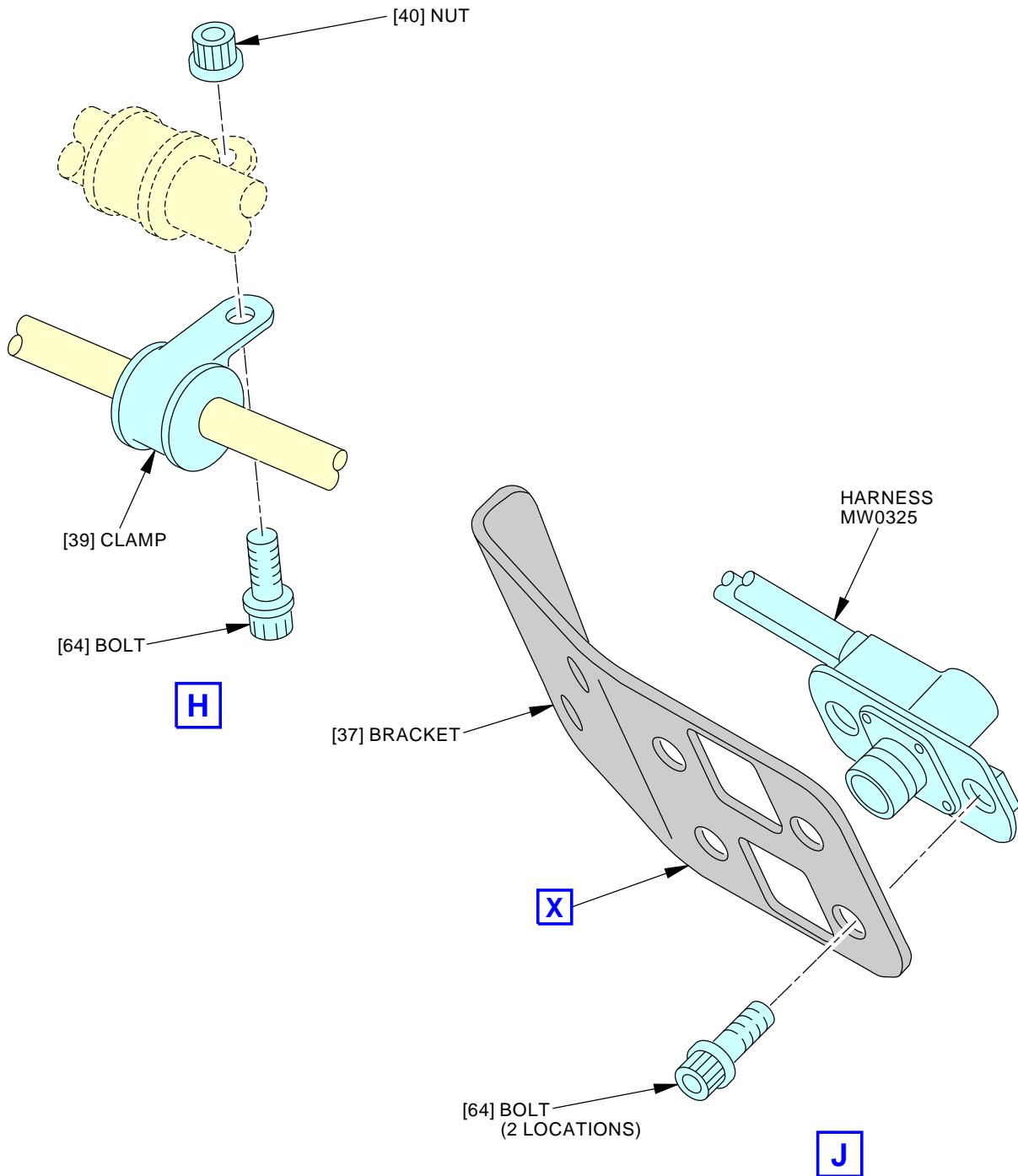
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2086800 S0000439270_V4

Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 9 of 11)

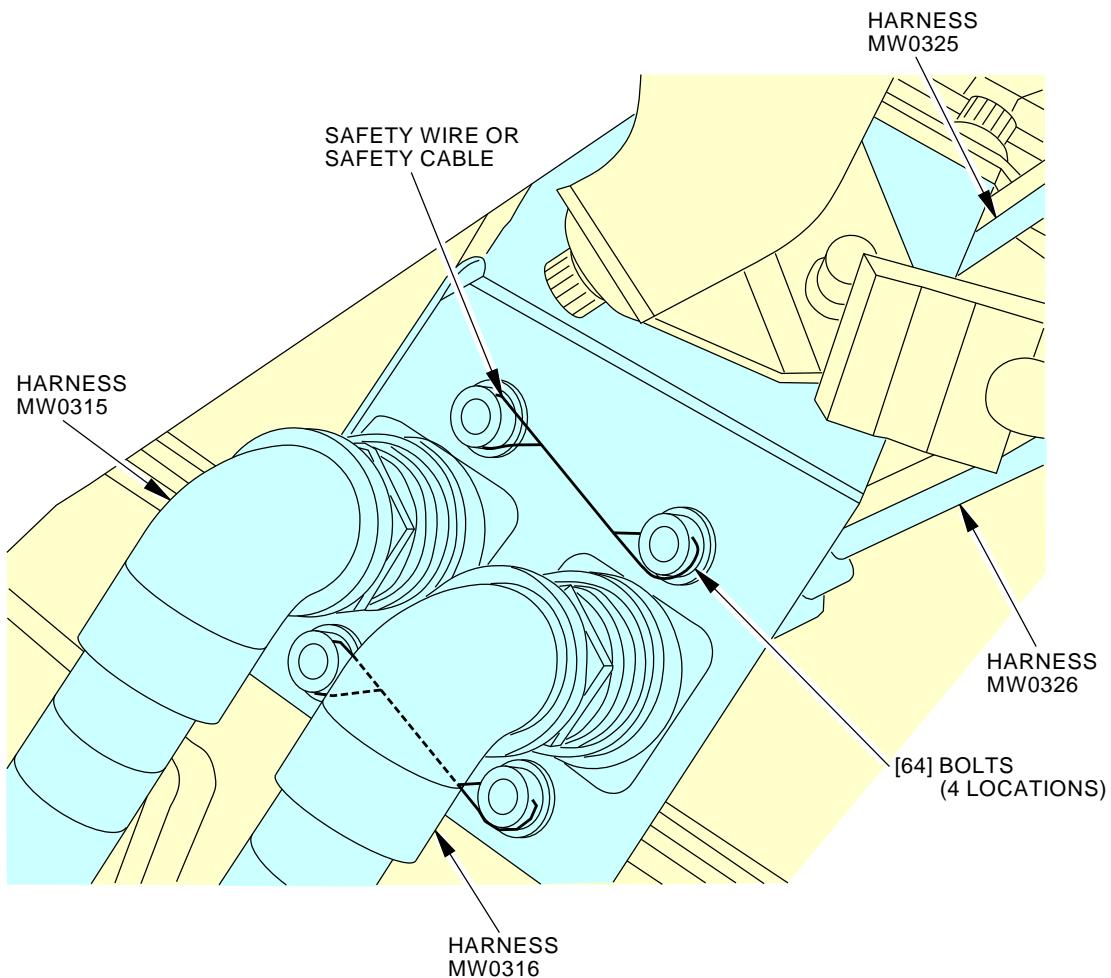
EFFECTIVITY
**AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
 SB 737-CFM56-7B-72-0981**

26-11-02

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2086803 S0000439271_V3

Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 10 of 11)

EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
SB 737-CFM56-7B-72-0981

26-11-02

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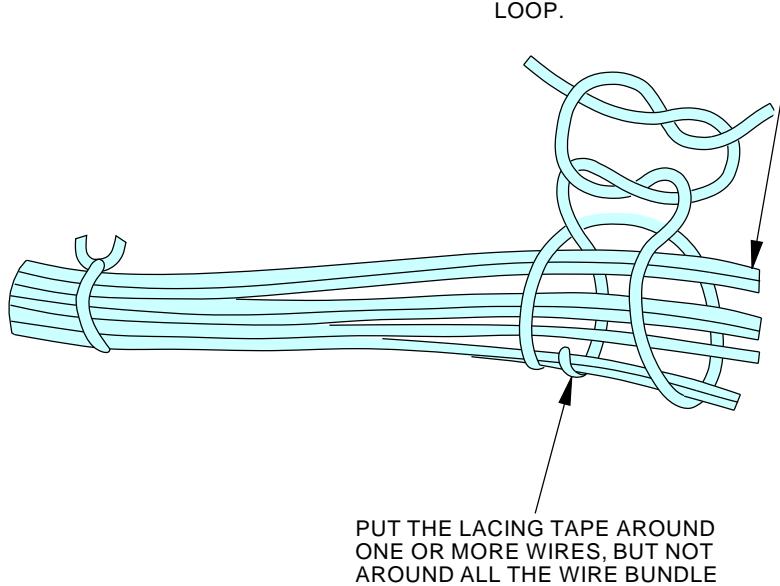
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THE LOCATION OF THE CLOVE AND THE SQUARE OR SURGICAL KNOT CAN BE AT ANY POSITION ON THE CIRCUMFERENCE OF THE WIRE HARNESS, RELATIVE TO THE LOCATION OF THE SMALLER LOOP.



EXAMPLE OF ACCEPTABLE ATTACHMENT METHOD

2105556 S0000449161_V2

Core Fire Detection Harnesses Installation
Figure 404/26-11-02-990-829 (Sheet 11 of 11)

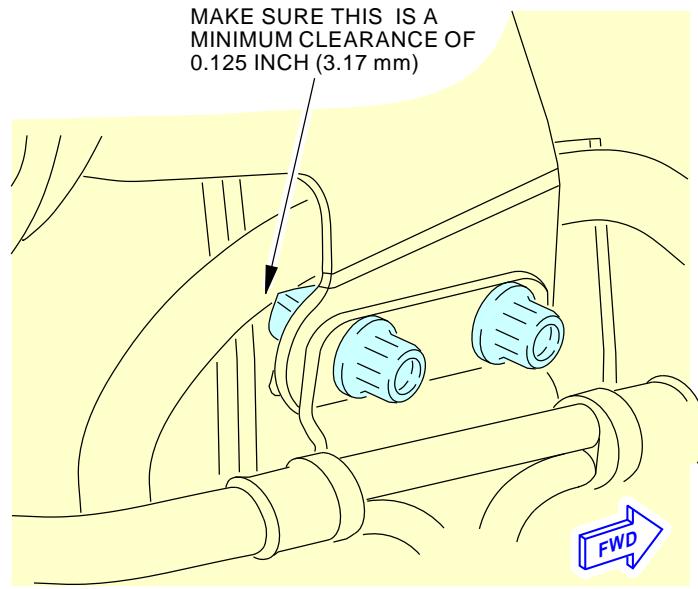
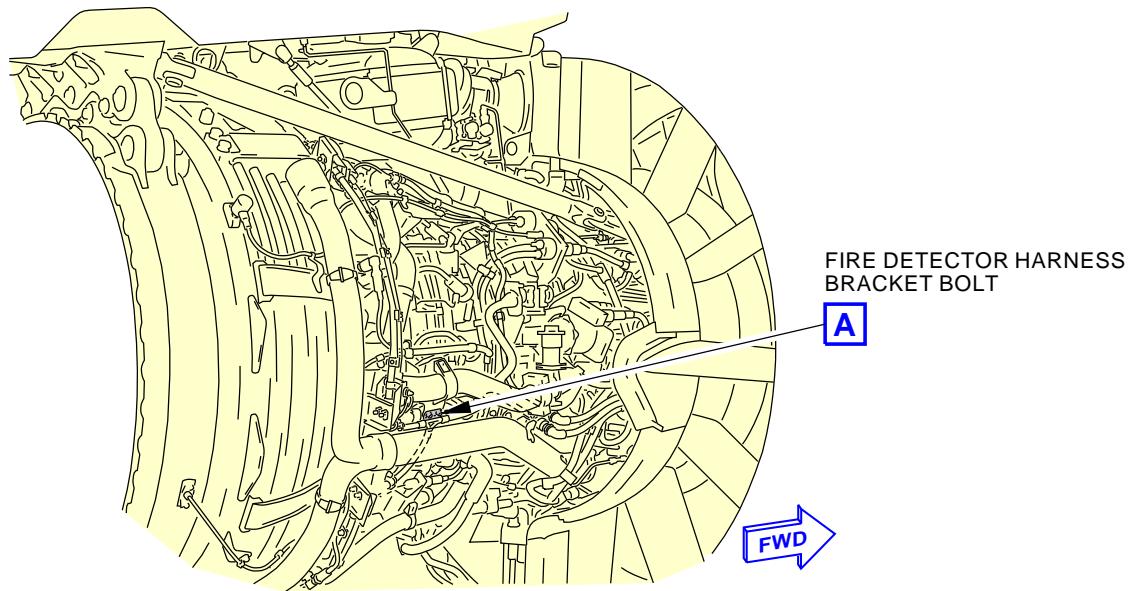
EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST
SB 737-CFM56-7B-72-0981

26-11-02

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FIRE DETECTOR HARNESS BRACKET BOLT

A

2103855 S0000447824_V3

Clearance between Fire Detector Harness Bracket Bolt and Fuel Supply Manifold
Figure 405/26-11-02-990-830 (Sheet 1 of 2)

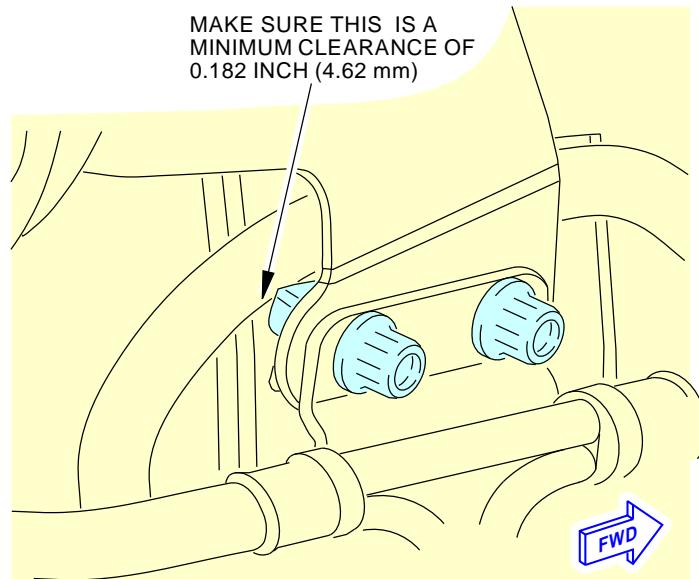
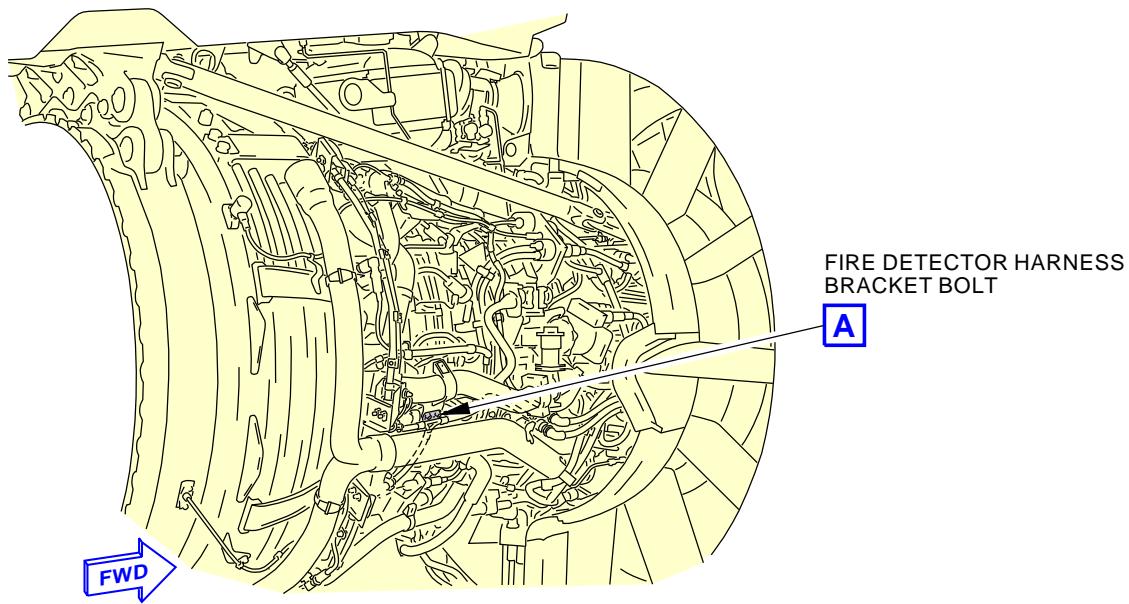
EFFECTIVITY

AKS ALL POST SB 737-CFM56-7B-72-0258 AND PRE
SB 737-CFM56-7B-72-0822 AND PRE SB 737-26-1123
AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB
737-CFM56-7B-72-0981

26-11-02

D633A101-AKS

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FIRE DETECTOR HARNESS BRACKET BOLT

A

2184651 S0000483624_V3

Clearance between Fire Detector Harness Bracket Bolt and Fuel Supply Manifold
Figure 405/26-11-02-990-830 (Sheet 2 of 2)

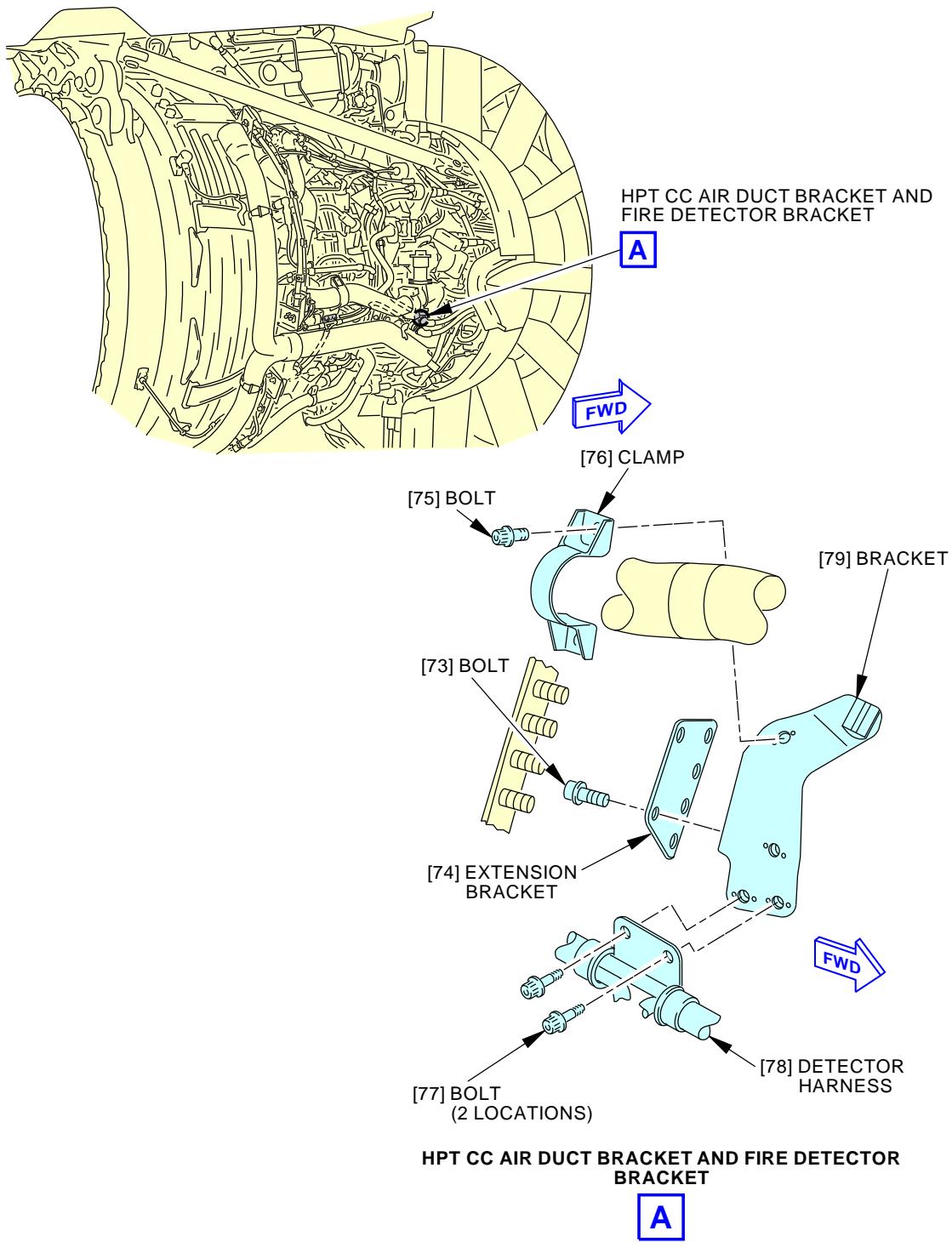
EFFECTIVITY

AKS ALL POST SB 737-CFM56-7B-72-0258 AND
 POST SB 737-CFM56-7B-72-0822 AND PRE SB
 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759
 AND PRE SB 737-CFM56-7B-72-0981

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2103814 S0000447827_V2

HPT CC Air Duct Bracket and Fire Detector Bracket
Figure 406/26-11-02-990-831

EFFECTIVITY

AKS ALL PRE SB 737-26-1123 AND PRE SB
737-CFM56-7B-72-0759 AND PRE SB
737-CFM56-7B-72-0981

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AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST SB 737-CFM56-7B-72-0981 (Continued)

TASK 26-11-02-400-802

5. Core Fire Detection Harness Installation

(Figure 402 or Figure 403 or Figure 404)

A. General

- (1) Core Fire Detection Harness, MW0325 [33] is a component of loop A of the engine core fire detection circuit.
- (2) Core Fire Detection Harness, MW0326 [31] is a component of loop B of the engine core fire detection circuit.

B. References

Reference	Title
26-11-00-710-801	Engine Fire Detection - Operational Test (P/B 501)
70-20-01-800-804-F00	Lockwire Installation (P/B 201)
78-31-00-010-804-F00	Close the Thrust Reverser (Selection) (P/B 201)

C. Consumable Materials

Reference	Description	Specification
B01058 [CP1039]	Solvent - Acetone, Reagent Grade	
D00601 [CP2101]	High-temperature graphite compound	SAE AMS 2518
D00625 [CP2338]	Grease - Conductive - Brisal OX	
G02345 [CP8001]	Wire - Safety, 0.032 Inch (0.8 mm) Diameter	CFM CP8001, AMS 5687
G50065 [CP8006]	Cable, Safety, Stainless Steel, 0.032 inch (0.813 mm) Diameter	M50 TF 9 CL-A

D. Prepare for the Installation

SUBTASK 26-11-02-640-002

- (1) Lubricate the threads of the bolts with graphite compound, D00601 [CP2101] before their installation.

SUBTASK 26-11-02-210-003

- (2) Make sure that the connectors and receptacles are clean and clear of unwanted materials.

SUBTASK 26-11-02-210-004

- (3) During installation, make sure that the harness are not stressed or torn.

| AKS ALL PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

E. Core Fire Detection Harness Installation

SUBTASK 26-11-02-420-002

- (1) Core fire detection harness installation.
 - (a) Put the harness in position on the engine.
 - (b) Attach the harness receptacle to the Engine Bracket [34] with two Bolts [35] on each receptacle.
 - 1) Tighten the Bolts [35] to 98-110 pound-inches (11-12.5 Newton-meters).
 - (c) Connect fan fire detection harness connector to the core fire detection harness receptacle. Tighten by hand.

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AKS ALL PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981
(Continued)

CAUTION: DO NOT BEND OR APPLY SIDE LOADS TO THE WIRE LUGS. DAMAGED WIRE LUGS CAUSE LOOP DETECTOR FAULTS. IF YOU BEND THE WIRE LUGS, DAMAGE TO THEM OCCURS.

- (d) Attach the two harness Terminal Lugs [20] to each core fire detector with the Washer [15] and Nut [14].

NOTE: If the leads are different sizes, install the lead with the small hole under the lead with the large hole.

- 1) Tighten the Nuts [14] to 25-35 pound-inches (2.82-3.95 Newton-meters).

AKS ALL PRE SB 737-CFM56-7B-72-0258 AND PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

- (e) Attach the Ground Lug [19] to Engine Bracket [34] with Washer [18] and Bolt [17].

AKS ALL PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

- (f) Install the harness in the Hinged Clamp [16] and tighten the bolt [36].

- (g) Attach the harness to the bracket with two bolts [36].

- 1) Tighten two bolts [36] to 98-110 pound-inches (11-12.5 Newton-meters).

- (h) Install the harness in the Hinged Clamps [32] along the length of the harness and tighten the bolts [36].

AKS ALL POST SB 737-CFM56-7B-72-0258 AND PRE SB 737-CFM56-7B-72-0822 AND PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

- (i) Make sure there is a minimum clearance of 0.125 in. (3.18 mm) between bolt [36] and fuel nozzle supply tube located right below this area. Refer to Figure 405, if there is not a minimum clearance of 0.125 inch (3.17 mm), continue to the following step.

AKS ALL POST SB 737-CFM56-7B-72-0258 AND POST SB 737-CFM56-7B-72-0822 AND PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

- (j) Make sure there is a minimum clearance of 0.182 in. (4.62 mm) between bolt [36] and fuel nozzle supply tube located right below this area. Refer to Figure 405, if there is not a minimum clearance of 0.182 inch (4.62 mm), continue to the following step.

AKS ALL PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

SUBTASK 26-11-02-420-006

AKS ALL POST SB 737-CFM56-7B-72-0258 AND PRE SB 737-CFM56-7B-72-0822 AND PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

- (2) If the clearance between the bolt [36] and the Fuel nozzle tube is less than 0.125 in. (3.18 mm), do the steps that follow. Refer to Figure 406.

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AKS ALL POST SB 737-CFM56-7B-72-0258 AND POST SB 737-CFM56-7B-72-0822 AND PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

If the clearance between the bolt [36] and the Fuel nozzle tube is less than 0.182 in. (4.62 mm), do the steps that follow. Refer to Figure 406.

AKS ALL PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

- (a) Do an inspection of the fuel tube to make sure there is no contact or damage.
- (b) If you see damage, do the inspection in TASK 73-11-05-700-801-F00.
- (c) Loosen the bolts [73] that attach the extension bracket [74] to hpt cc air duct bracket [79].
- (d) Remove the bolts [75] and the clamp [76] from the hpt cc air duct bracket [79].
- (e) Remove the bolts [77] that attach the fire detector harness [78] to the hpt cc air duct bracket [79].
- (f) To move the hpt cc air duct bracket [79], turn and pull out at the top and push in at the bottom.
- (g) Once the bracket [79] has been moved, assemble the hardware in the sequence that follows:
 - 1) Tighten the bolts [73] that attach the extension bracket [74] to the hpt cc air duct bracket [79]. Torque to 62-68 lb in (7,0-7,7 N.m).
 - 2) Install the bolts [75] and the clamp [76] to the HPT CC air duct. Torque to 62-68 lb in (7,0- 7,7 N.m).
 - 3) Lubricate the threads of the bolts [77] that attach the fire detector harness [78] to the hpt cc air duct bracket [79] with graphite compound, D00601 [CP2101]. Install the fire detector harness [78] and the two bolts [77]. Torque to 98-110 lb in (11-12.5 N.m).
 - 4) Make sure that the detector harness [78] is not stressed.

AKS ALL POST SB 737-CFM56-7B-72-0258 AND PRE SB 737-CFM56-7B-72-0822 AND PRE SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

- 5) Make sure that the clearance is equal to or greater than 0.125 in. (3.18 mm).
- 6) Make sure that the clearance is equal to or greater than 0.182 in. (4.62 mm).

| AKS ALL POST SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981

F. Core Fire Detection Harness Installation

SUBTASK 26-11-02-420-003

- (1) Core fire detection harness installation:
 - (a) Put the harness in the position on engine.
 - (b) Install the Loop Clamp [4] and Teflon Insert [12] on the fire detection harness at the L Bracket [5] at two locations.
 - 1) Tighten the Bolt [2] and Self -Locking Nut [3] on the L Bracket [5] to 98-110 pound-inches (11-12.5 newton-meters).
 - (c) Connect the fan harness connectors to the core detector harness connectors and tighten by hand.
 - (d) Connect the core fire detection harness at each detector.

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AKS ALL POST SB 737-26-1123 AND PRE SB 737-CFM56-7B-72-0759 AND PRE SB 737-CFM56-7B-72-0981
(Continued)

CAUTION: DO NOT BEND OR APPLY SIDE LOADS TO THE WIRE LUGS. DAMAGED WIRE LUGS CAUSE LOOP DETECTOR FAULTS. IF YOU BEND THE WIRE LUGS, DAMAGE TO THEM OCCURS.

- 1) Install the Loop Clamp [4], Cable Bushing [10] and Teflon Insert [12] at each detector terminal.
- 2) Tighten the Loop Clamp [4] to the Detector Bracket [7] with the Terminal Nut [6] to 25-35 pound-inches (2.8-3.9 newton-meters).
- 3) Install the Ground Strap [11] on the core fire detection cable.
- 4) Attach the Ground Strap [11] to the Detector Bracket [7] with Screw [8] and Nut [9].
 - a) Tighten the Screw [8] and Nut [9] to 25-30 pound-inches (2.8-3.4 newton-meters).
- (e) Install the Teflon Inserts [12], Cable Bushings [10], and Loop Clamps [4] along the length of the harness.
 - 1) Tighten the Bolts [2] and Self -Locking Nuts [3] to 98-110 pound-inches (11-12.5 newton-meters).

| AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST SB 737-CFM56-7B-72-0981

G. Core Fire Detection Harness Installation

(Figure 402 or Figure 403 or Figure 404)

NOTE: Lubricate the threads of bolts with graphite compound, D00601 [CP2101] before their installation.

SUBTASK 26-11-02-420-004

- (1) Core fire detection harness MW0326 installation:
 - (a) Put the harness in position on core engine (Figure 404 (Sheet 1) and Figure 404 (Sheet 2)).
 - (b) Install two bolts [64] to attach MW0326 harness receptacles to the core engine bracket [37] (Figure 404 (Sheet 6), View W).
 - (c) Torque the bolts [64] to 98-115 lb.in (11-13 N.m).
 - (d) If the MW0325 harness stays installed, safety the bolts [64] with safety wire, G02345 [CP8001] or cable, G50065 [CP8006] (Lockwire Installation, TASK 70-20-01-800-804-F00) (Figure 404 (Sheet 10)).
 - (e) Connect the fan fire detection harness,MW0316, to the MW0326 harness. Tighten with hand.

WARNING: METHYL ISOBUTYL KETONE (MIK) AND ACETONE ARE TOXIC, FLAMMABLE, AND CAN BE EXPLOSIVE. DO NOT BREATHE VAPORS. USE IN A WELL-VENTILATED AREA THAT IS FREE OF SPARKS, FLAMES, AND HOT SURFACES. WEAR GOGGLES, SOLVENT-RESISTANT GLOVES, AND OTHER PROTECTIVE CLOTHING. IF SOLVENT COMES IN CONTACT WITH YOUR EYE(S), FLUSH YOUR EYE(S) WITH WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION. IF SOLVENT COMES IN CONTACT WITH YOUR SKIN, WASH WITH SOAP AND WATER.

- (f) Clean the following mating faces with acetone solvent, B01058 [CP1039] on the core engine bracket [43] and bracket [65] (Figure 404 (Sheet 3)):

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- 1) nut [69], washer [50], and terminal lug [52].
 - 2) bolt [48] and washer [49], and ground strap [54].
 - 3) bolts [64] and clamp [61] (view P).
 - 4) bolt [64] and clamp [39] (view L).
- (g) Clean the following mating faces with acetone solvent, B01058 [CP1039] on the core engine bracket [41] (Figure 404 (Sheet 4))
- 1) nut [68], washer [46], and terminal lug [66].
 - 2) bolt [67], washer [38], and ground strap [55].
 - 3) bolt [47] and clamp [39].
- (h) Lightly coat previously cleaned mating faces with electrical conductive Brisal OX grease, D00625 [CP2338].

CAUTION: MAKE SURE THAT YOU INSTALL THE GROUND LUG ON THE ENGINE CORRECTLY. INCORRECT INSTALLATION OF THE GROUND LUG CAN CAUSE DAMAGE TO THE GROUND STRAP.

CAUTION: DO NOT BEND OR APPLY SIDE LOADS TO THE WIRE LUGS OR WHITE CERAMIC PART OF THE LUGS. DAMAGED WIRE LUGS CAUSE LOOP DETECTOR FAULTS. IF YOU BEND THE WIRE LUGS OR APPLY SIDE LOADS TO THE WHITE CERAMIC PIECES, DAMAGE TO THEM OCCURS.

- (i) Install the nut [69] and washer [50] to attach the terminal lug [52] of the harness to the fire detector (Figure 404 (Sheet 3)).
- NOTE: The ground strap should not be too tight or too loose (at a radius of less than 0.49 in. (12.5 mm)).
- (j) Install the bolt [48] and washer [49] to attach the ground strap [54] to the bracket [43].
- (k) Install the bolt [64] to attach the clamp [61] to the core engine bracket [43] (Figure 404 (Sheet 3), View P).
- (l) Install the bolt [64] to attach the clamp [39] to the core engine bracket [65] (Figure 404 (Sheet 3), View L).
- NOTE: Make sure the correct bolt hole is used.
- (m) Install the nut [68] and washer [46] to attach the terminal lug [66] of the harness to the fire detector (Figure 404 (Sheet 4)).
- (n) Install the bolt [67] and washer [38] to attach the ground strap [55] to the core engine.
- (o) Install the bolt [47] to attach the clamp [39] to the core engine bracket [41] (Figure 404 (Sheet 4)).
- (p) Torque all the bolts to 60-70 lb.in (6.8-7.9 N.m).
- (q) Torque all the nuts to 25-35 lb.in (2.82-9.95 N.m).
- (r) Install all the other bolts [64] to attach the clamps [39] to the brackets on the core engine (Figure 404 (Sheet 5), Figure 404 (Sheet 6)).
- (s) Make sure that the MW0326 harness is not stressed.
- (t) Make sure that the minimum clearance between harness branch and fuel manifold is 0.1 in. (2.54 mm).
- (u) Torque all the bolts to 60-70 lb.in (6.8-7.9 N.m).

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AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST SB 737-CFM56-7B-72-0981 (Continued)

- (v) Fasten the ground strap [54] and ground strap [55] to the harness, MW0326 with a splice [80] (Figure 404 (Sheet 3) and Figure 404 (Sheet 4)).
 - 1) Maximum distance between two bundles is 2 in. (51 mm).
 - 2) Attach correctly the ground strap (Figure 404 (Sheet 11))

NOTE: Make sure the ground strap does not cross the harness.

SUBTASK 26-11-02-420-005

- (2) Core fire detection harness MW0325 installation:
 - (a) Put the harness in position on core engine (Figure 404 (Sheet 1), see View J).
 - (b) Install two bolts [64] to attach MW0325 harness receptacle to the core engine bracket [37] (Figure 404 (Sheet 9), View J).
 - (c) Torque the bolts [64] to 98-115 lb.in. (11-13 N.m).
 - (d) Safety the bolts [64] with safety wire, G02345 [CP8001] or cable, G50065 [CP8006] (Lockwire Installation, TASK 70-20-01-800-804-F00) (Figure 404 (Sheet 10)).
 - (e) Connect the fan fire detection harness, MW0315, to the MW0325 harness. Tighten with hand.

WARNING: METHYL ISOBUTYL KETONE (MIK) AND ACETONE ARE TOXIC, FLAMMABLE, AND CAN BE EXPLOSIVE. DO NOT BREATHE VAPORS. USE IN A WELL-VENTILATED AREA THAT IS FREE OF SPARKS, FLAMES, AND HOT SURFACES. WEAR GOGGLES, SOLVENT-RESISTANT GLOVES, AND OTHER PROTECTIVE CLOTHING. IF SOLVENT COMES IN CONTACT WITH YOUR EYE(S), FLUSH YOUR EYE(S) WITH WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION. IF SOLVENT COMES IN CONTACT WITH YOUR SKIN, WASH WITH SOAP AND WATER.

- (f) Clean the following mating faces with acetone solvent, B01058 [CP1039] on the core engine brackets (Figure 404 (Sheet 7) and Figure 404 (Sheet 8)).
 - 1) bolt [51] and clamp [42].
 - 2) nut [53], washer [71], and terminal lug [44].
 - 3) bolt [70], washer [38], and ground strap [60].
 - 4) bolt [36] and clamp [39].
 - 5) nut [57], washer [58], and terminal lug [45].
 - 6) bolt [72], washer [56], and ground strap [59].
 - 7) bolt [64] and clamp [62].
- (g) Lightly coat previously cleaned mating faces with Brisal OX grease, D00625 [CP2338].

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AKS ALL POST SB 737-CFM56-7B-72-0759 OR POST SB 737-CFM56-7B-72-0981 (Continued)

CAUTION: MAKE SURE THAT YOU INSTALL THE GROUND LUG ON THE ENGINE CORRECTLY. INCORRECT INSTALLATION OF THE GROUND LUG CAN CAUSE DAMAGE TO THE GROUND STRAP.

CAUTION: DO NOT BEND OR APPLY SIDE LOADS TO THE WIRE LUGS OR WHITE CERAMIC PART OF THE LUGS. DAMAGED WIRE LUGS CAUSE LOOP DETECTOR FAULTS. IF YOU BEND THE WIRE LUGS OR APPLY SIDE LOADS TO THE WHITE CERAMIC PIECES, DAMAGE TO THEM OCCURS.

- (h) Install the bolt [51] that attaches the clamp [42] to the bracket [63] on the core engine (Figure 404 (Sheet 7)).

NOTE: The ground strap should not be too tight or too loose (at a radius of less than 0.49 in. (12.5 mm)).

- (i) Install the nut [53] and washer [71] to attach the terminal lug [44] of the harness to the fire detector (Figure 404 (Sheet 7)).

- (j) Install bolt [70] and washer [38] to attach the ground strap [60] to the core engine.

- (k) Install the bolt [36] and the clamp [39] to attach the MW0325 harness to the bracket on the core engine (Figure 404 (Sheet 7)).

- (l) Install nut [57] and washer [58] to attach the terminal lug [45] of the harness to the fire detector (Figure 404 (Sheet 8)).

- (m) Install the bolt [72] and washer [56] to attach the ground strap [59] to the core engine.

- (n) Install the bolt [64] and the clamp [62] to attach the MW0325 harness to the bracket on the core engine (Figure 404 (Sheet 8)).

- (o) Install the clamp [39], bolt [64], nut [40] to attach the MW0325 harness to the bracket on the core engine (Figure 404 (Sheet 9)).

- (p) Make sure that the MW0325 harness is not stressed.

- (q) Make sure that the minimum clearance between harness branch and fuel manifold is 0.1 in (2.54 mm).

- (r) Make sure that the minimum clearance between the clamp [42] and the LPTACC manifold is 0.2 in (5.00 mm) (Figure 404 (Sheet 7) view G.).

- (s) Torque all the bolts to 60-70 lb.in (6.8-7.9 N.m).

- (t) Torque all the nuts to 25-35 lb.in (2.82-3.95 N.m).

- (u) Fasten the ground strap [59] and ground strap [60] to the MW0325 harness with a splice [80] (Figure 404 (Sheet 7) and Figure 404 (Sheet 8)).

- 1) Bend the harness to loops to take up excess length (Figure 404 (Sheet 8)).

- 2) Maximum distance between two bundles is 2 in. (51 mm)

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- 3) Attach correctly the grounding strap (Figure 404 (Sheet 11))

NOTE: Make sure the grounding strap does not cross the harness.

AKS ALL

H. Core Fire Detection Harness Installation Test

SUBTASK 26-11-02-040-003

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-02-710-002

- (2) Do this task: Engine Fire Detection - Operational Test, TASK 26-11-00-710-801.

I. Put the Airplane Back to its Usual Condition

SUBTASK 26-11-02-010-005

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Close the Thrust Reverser (Selection), TASK 78-31-00-010-804-F00.

———— END OF TASK ————



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ENGINE FIRE DETECTOR HARNESS - REPAIRS

1. General

- A. This procedure has two tasks:
- (1) Replacement of the fan fire detector wire harness terminal lugs and ground lugs and replacement of the core fire detector wire harness terminal lugs and ground lugs for airplanes with engines PRE and POST CFM SB 72-0136 (first repair).
 - (2) Replacement of the core fire detector wire harness terminal lugs and ground lugs for airplanes with engines POST CFM SB 72-0269 (second or third repairs).

NOTE: You must do this repair procedure on harnesses which have the new configuration POST CFM SB 72-0258, because the terminal lugs are the same.

AKS ALL PRE SB 737-CFM56-7B-72-0258

TASK 26-11-02-960-801

2. Fan and Core Fire Detection Wire Harness Terminal Lugs and Ground Lug Replacement (Engines PRE CFM SB 72-0258 for core harnesses)

A. General

CAUTION: DO NOT USE CIRCULAR AND OVAL TERMINAL LUGS IN THE SAME INSTALLATION. DAMAGE TO EQUIPMENT WILL OCCUR.

- (1) Do this procedure if one of the fire detector wire harness terminal lugs or ground lug is broken or almost broken.
- (2) This procedure provides instructions to replace the fire detector wire harness ground lug or the fire detector wire harness terminal lugs for fan fire detector wire harnesses.
- (3) This procedure provides instructions to replace the fire detector wire harness ground lug or the fire detector wire harness terminal lugs for core fire detector wire harnesses.

NOTE: This procedure is applicable for repair of core harnesses PRE and POST CFM SB 72-0136 (first repair). Do not use this procedure for repair of harnesses with new configuration POST CFM SB 72-0258.

B. References

Reference	Title
26-11-00-710-801	Engine Fire Detection - Operational Test (P/B 501)
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)
78-31-00-010-804-F00	Close the Thrust Reverser (Selection) (P/B 201)
SWPM 20-10-14	Installation of Shrinkable Sleeves

C. Tools/Equipment

Reference	Description
STD-441	Gun - Heat, 500 to 800° F (260 to 427° C)

D. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
G50541	Tubing - Heat Shrinkable, Teflon Sleeve (TFE-R-5/8-X)	AMS-DTL-23053/12
G50544	Tubing - Heat Shrinkable, Teflon Sleeve (TFE-R-1/2-X)	AMS-DTL-23053/12

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AIRCRAFT MAINTENANCE MANUAL

AKS ALL PRE SB 737-CFM56-7B-72-0258 (Continued)

E. Location Zones

Zone Area

411	Engine 1 - Engine
421	Engine 2 - Engine

F. Equipment

SUBTASK 26-11-02-480-002

- (1) AMP Lug crimping tool 46988 - AMP Matrix Aerospace

11 Avenue Jean d'Alembert

78190 Trappes FRANCE

or

AMP Incorporated

P.O. Box 3608

Harrisburg, PA 17105

USA

NOTE: For terminal lug and for ground lug only.

G. Prepare for the Replacement of the Fire Detector Lug

SUBTASK 26-11-02-040-006

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row Col Number Name

A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-02-010-008

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO OPEN THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (2) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

H. Fire Detector Harness Terminal or Ground Lug Removal

SUBTASK 26-11-02-800-002

- (1) It is not necessary to remove completely the fire detection harness when you replace a lug. Remove only enough length of the wire harness to provide sufficient access to the lug.

NOTE: The lug at the end of each wire can be replaced two times only. If a third lug replacement is necessary, replace the entire fire detector.

SUBTASK 26-11-02-350-019

- (2) Removal of the terminal or ground wire (Figure 801).

- To disconnect a ground lug, remove the bolt [1] and washer [2] which secure the ground wire to the engine bracket.
- To disconnect a terminal wire, remove the nut [3], the washer [4] which secure the terminal lugs to the fire detector.
- Remove the lug insulator.

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AKS ALL PRE SB 737-CFM56-7B-72-0258 (Continued)

- (d) Cut the cable at the lug barrel. Make sure that the cut at the wire and insulation of the cable is clean and clear.
- (e) Discard the damaged lug.

I. Fire Detector Terminal Lug Replacement

(Figure 802).

SUBTASK 26-11-02-350-020

CAUTION: DO NOT CAUSE DAMAGE TO THE HEAT-SHRINKABLE SLEEVE OR INSULATION SHEATH WHEN YOU REMOVE THE TFER SLEEVE.

- (1) For harnesses already repaired by CFM SB 72-0136 (first repair), cut and remove the TFE-R 5/8-X tubing, G50541.

SUBTASK 26-11-02-350-021

- (2) Remove enough of the heat-shrinkable sleeve so that it will line up flush with the end of the barrel of the replacement lug after installation.

SUBTASK 26-11-02-350-022

- (3) Remove 0.216 in. (5.5 mm) of the insulation sheath from the end of the wire.

SUBTASK 26-11-02-350-023

- (4) Make sure the cutting of the heat-shrinkable sleeve and insulation sheath is clear and clean.

SUBTASK 26-11-02-350-024

WARNING: ISOPROPYL ALCOHOL IS FLAMMABLE. AVOID PROLONGED BREATHING OF VAPOR AND PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID CONTACT WITH EYES. CLEAN PARTS IN WELL-VENTILATED AREA AND USE APPROVED SAFETY EQUIPMENT.

- (5) Clean the braid wire and insulation with alcohol, B00130 (CP1041).

AKS ALL POST SB CFM56-7B-72-136 AND PRE SB 737-CFM56-7B-72-0258

SUBTASK 26-11-02-350-025

- (6) Prepare the installation of the TFE-R-1/2-X tubing, G50544, on the wire.

NOTE: You must not do this step for fan fire detector wire harnesses.

- (a) Cut a 1.38 in. (35 mm) long TFE-R 5/8-X tubing, G50541.
- (b) Install the TFE-R 5/8-X tubing, G50541, on the insulation sheath.

NOTE: Allow sufficient room for the installation of the lug.

AKS ALL PRE SB 737-CFM56-7B-72-0258

SUBTASK 26-11-02-350-026

- (7) Install the terminal lug [6] freely on the wire to check for correct position on the fire detector stud.

- (a) Position the terminal lug [6] on the fire detector and mark the lug and wire.
- (b) Remove the terminal lug [6] from the stud.

SUBTASK 26-11-02-350-027

- (8) Line up the mark on the wire and terminal lug [6], and crimp the terminal lug [6] on the wire with the AMP crimping tool (Figure 803, Figure 804, Figure 805).

EFFECTIVITY
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26-11-02



**737-600/700/800/900
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AKS ALL PRE SB 737-CFM56-7B-72-0258 (Continued)

- (a) Insert insulation adjustment pin of the crimping tool as shown in Figure 803 to adjust the wire insulation grip.
- (b) Push the locator and position the lug [6] in the crimping jaws. Make sure the lug rests against the locator.
- (c) Close the tool handles just enough to hold the lug [6] within the crimping jaws.
- (d) Insert the stripped wire into the lug barrel.
NOTE: Line up the marks on the lug and wire. Lug orientation must be respected. Lug angular tolerances are 10 percent.
- (e) Crimp the lug [6] in the following two places with the AMP lug crimping tool, part number 46988.
 - 1) Close the tool handles fully to crimp the lug [6]. The tool handles will open automatically after the ratchet is released.
 - 2) On the braid wire over 1.38 in. (35 mm).
 - 3) On the insulation sheath only.
NOTE: For terminal lugs, the heat-shrinkable sleeve is located at the end of the lug barrel.
- (f) Remove the crimped lug from the crimping jaws.

SUBTASK 26-11-02-350-028

- (9) Install the TFE-R 5/8-X tubing, G50541, on the terminal lug using heat gun, 500 to 800° F, STD-441 (SWPM 20-10-14).
 - (a) Install and position the sleeve over the lug [6] (Figure 802).

WARNING: PUT ON GLOVES WHEN YOU HEAT THE TFER SLEEVE. YOU CAN BURN YOUR HANDS.

- (b) Heat the TFER sleeve to a maximum of 700 degrees F (400 degrees C) to shrink the sleeve.

J. Replacement of the Ground Lug

(Figure 806).

NOTE: This procedure is not applicable on harnesses with the new configuration CFM SB 72-0258, since the terminal lug is changed by a metallic bobbin ground lug.

SUBTASK 26-11-02-350-029

CAUTION: DO NOT CAUSE DAMAGE TO THE HEAT-SHRINKABLE SLEEVE OR INSULATION SHEATH WHEN YOU REMOVE THE TFER SLEEVE.

- (1) For harnesses already repaired by CFMI SB 72-0136 (first repair); cut and remove the TFER 1/2-inch sleeve.

SUBTASK 26-11-02-350-030

- (2) Remove 0.216 inch (5.5 mm) of the heat-shrinkable sleeve from the end of the wire.

SUBTASK 26-11-02-350-031

- (3) Remove 0.216 in. (5.5 mm) of the insulation sheath from the end of the wire.

SUBTASK 26-11-02-350-032

- (4) Make sure the cutting of the heat-shrinkable sleeve and insulation sheath is clear and clean.

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

AKS ALL PRE SB 737-CFM56-7B-72-0258 (Continued)

SUBTASK 26-11-02-350-033

WARNING: ISOPROPYL ALCOHOL IS FLAMMABLE. AVOID PROLONGED BREATHING OF VAPOR AND PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID CONTACT WITH EYES. CLEAN PARTS IN WELL-VENTILATED AREA AND USE APPROVED SAFETY EQUIPMENT.

- (5) Clean the braid wire and insulation with alcohol, B00130 (CP1041).

SUBTASK 26-11-02-350-034

- (6) Prepare the installation of the TFE-R-1/2-X tubing, G50544.
(a) Cut a 1.38 in. (35 mm) long TFE-R-1/2-X tubing, G50544.
(b) Install the TFE-R-1/2-X tubing, G50544, on the insulation sheath.

NOTE: Allow sufficient room for the installation of the lug.

SUBTASK 26-11-02-350-035

- (7) Install the ground lug freely on the wire to check for correct position on the engine bracket.
(a) Position the terminal lug [5] on the engine bracket and mark the lug and wire.
(b) Remove the lug [5] from the bracket.

SUBTASK 26-11-02-350-036

- (8) Line up the mark on the wire and lug [5], and crimp the lug [5] on the wire with the AMP lug-crimping tool.
(a) Insert insulation adjustment pin of the crimping tool as shown in Figure 807 to adjust the wire insulation grip.
(b) Push the locator and position the lug [5] in the crimping jaws. Make sure the lug rests against the locator.
(c) Close the tool handles just enough to hold the lug [5] within the crimping jaws.
(d) Insert the stripped wire into the lug barrel.
NOTE: Line up the marks on the lug and wire. Lug orientation must be respected. Lug angular tolerances are 10 percent.
(e) Crimp the lug [5] in two places with the AMP lug-crimping tool, part number 46988.
1) Close the tool handles fully to crimp the lug [5]. The tool handles will open automatically after the ratchet is released.
2) On the braid wire over 0.216 inch (5.5 mm).
3) On the heat-shrinkable sleeve and insulation sheath only.
(f) Remove the crimped lug from the crimping jaws.

SUBTASK 26-11-02-350-037

- (9) Install TFE-R-1/2-X tubing, G50544, on the ground lug using heat gun, 500 to 800° F, STD-441 (SWPM 20-10-14).
(a) Install and position the sleeve over the lug [5] (Figure 806).

WARNING: PUT ON GLOVES WHEN YOU HEAT THE TFER SLEEVE. YOU CAN BURN YOUR HANDS.

- (b) Heat the TFER sleeve to a maximum of 700 degrees F (400 degrees C) to shrink the sleeve.

EFFECTIVITY
AKS ALL

26-11-02



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AKS ALL PRE SB 737-CFM56-7B-72-0258 (Continued)

K. Fire Detector Harness Terminal or Ground Lug Installation

SUBTASK 26-11-02-350-038

- (1) Installation of the terminal or ground lug (Figure 801).
 - (a) To install a terminal lug, position the lug on the fire detector, and install the washer [4] and nut [3].
 - 1) Tighten the nut to 25-35 pound-inches (3.0-4.0 Newton-meters).
 - (b) To install a ground lug, position the lug on the engine bracket, and install the washer [2] and bolt [1].
 - 1) Tighten the bolts to 95-110 pound-inches (11-12.5 Newton-meters).
 - (c) Remove the old identification plate from the harness, noting the serial number.
 - (d) Holding the new identification plate, mark the serial number from the old plate on it.
 - (e) Install the new identification plate on the harness.

L. Terminal Lug Replacement Test

SUBTASK 26-11-02-440-003

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-02-710-004

- (2) Do this task: Engine Fire Detection - Operational Test, TASK 26-11-00-710-801.

M. Put the Airplane Back to its Usual Condition

SUBTASK 26-11-02-010-009

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Close the Thrust Reverser (Selection), TASK 78-31-00-010-804-F00.

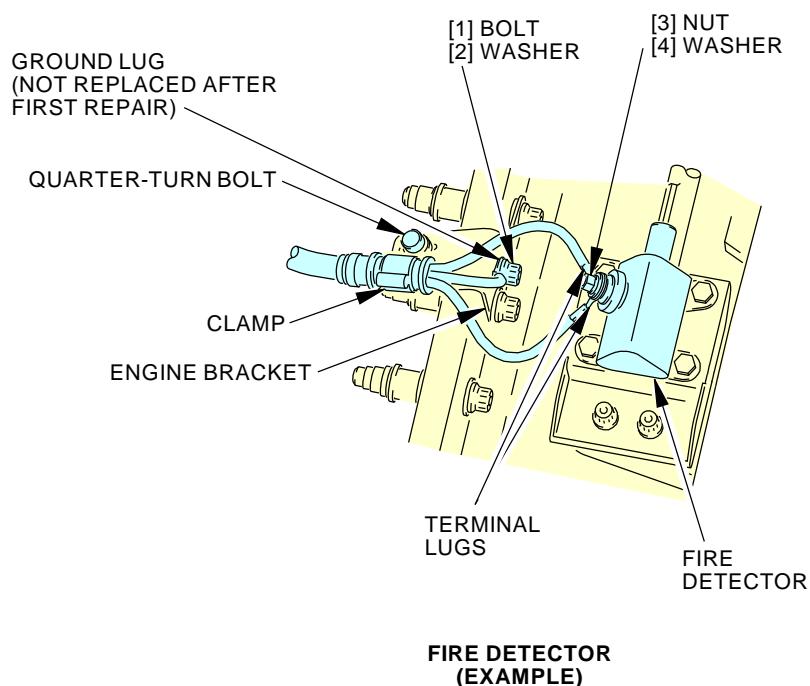
———— END OF TASK ————



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MM-00194-01-B

H76756 S0006568059_V3

Engine Fire Detection Harness Installation
Figure 801/26-11-02-990-803

EFFECTIVITY
AKS ALL PRE SB 737-CFM56-7B-72-0258

26-11-02

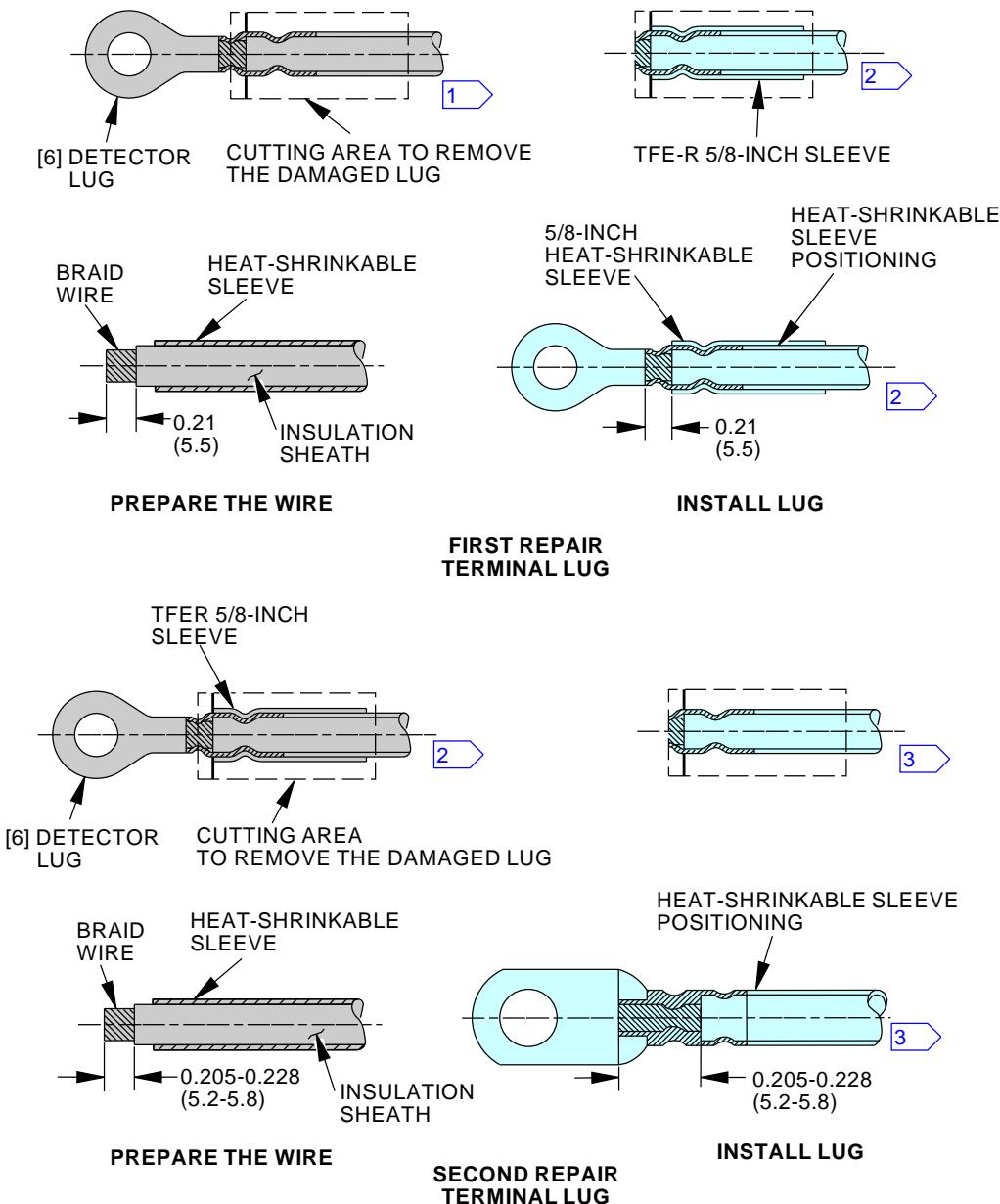
D633A101-AKS

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NOTE:

DIMENSIONS ARE IN INCHES WITH MILLIMETERS IN PARENTHESES.

- 1 FIRE DETECTOR LUG (PRE-CFM-SB 72-0136)
- 2 FIRE DETECTOR LUG (POST-CFM-SB 72-0136)
- 3 TERMINAL FIRE DETECTOR LUGS (POST-CFM-SB 72-0269)

MM-00196-01-B

W20137 S0006568060_V3

Engine Fire Detector Terminal Lug Replacement (Pre-CFM-SB 72-0258)
Figure 802/26-11-02-990-804 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL PRE SB 737-CFM56-7B-72-0258

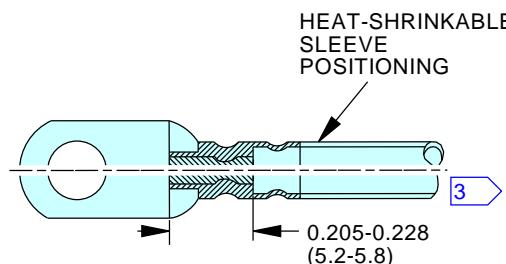
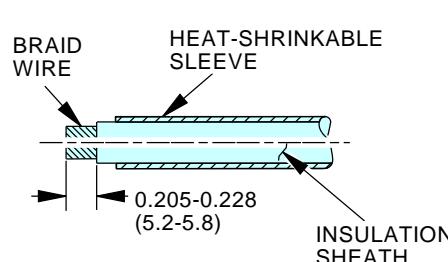
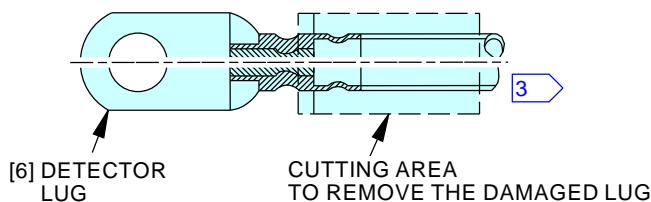
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THIRD REPAIR
TERMINAL LUG

NOTE:

DIMENSIONS ARE IN INCHES WITH MILLIMETERS IN PARENTHESES.

FIRE DETECTOR LUGS (POST-CFM-SB 72-0269)

MM-00228-00-B

W20383 S0006568061_V3

Engine Fire Detector Terminal Lug Replacement (Pre-CFM-SB 72-0258)
Figure 802/26-11-02-990-804 (Sheet 2 of 2)

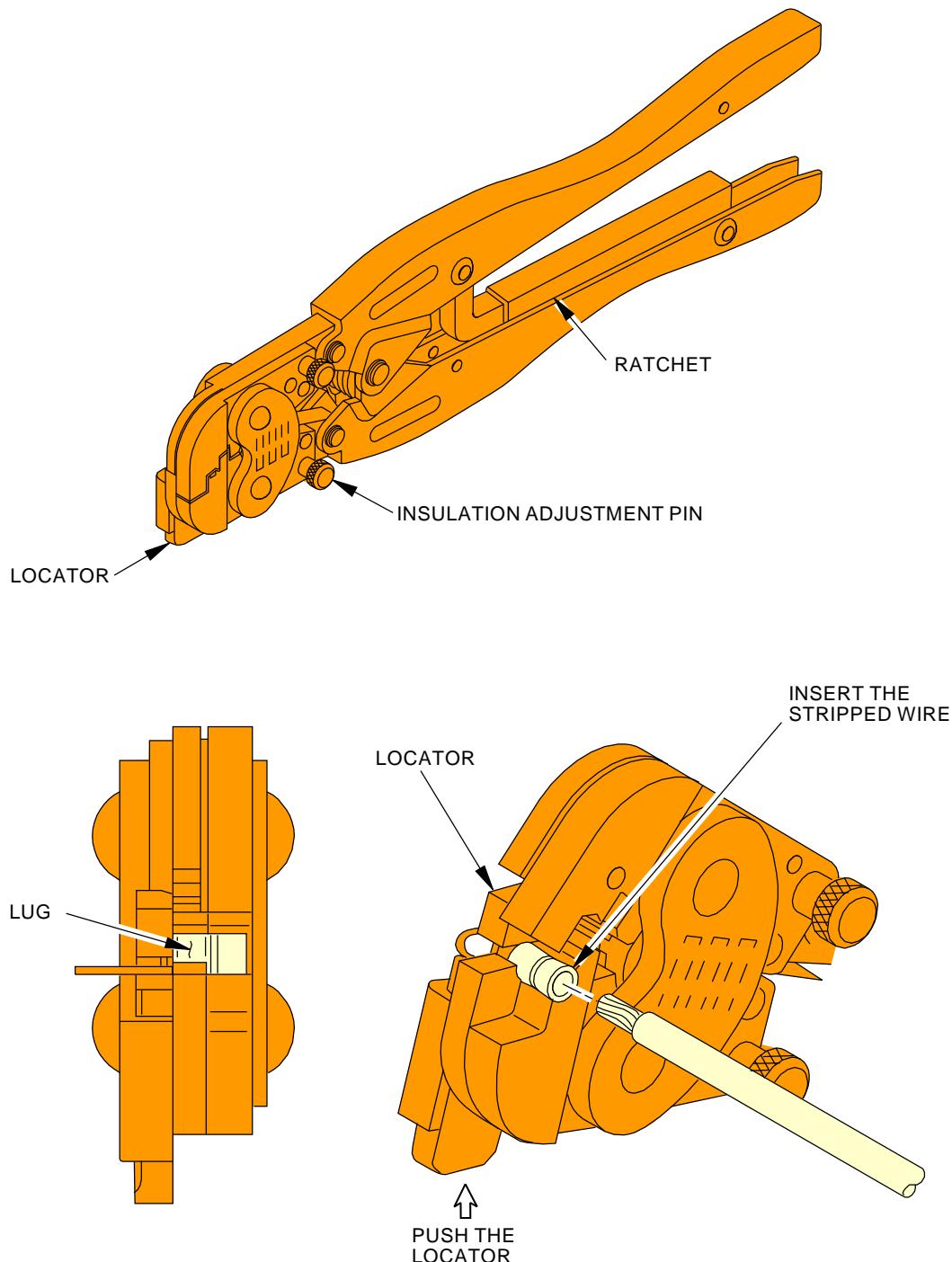
EFFECTIVITY
AKS ALL PRE SB 737-CFM56-7B-72-0258

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MM-00200-01-B

H76800 S0006568062_V2

Lug Crimping (Pre-CFM-SB 72-0258 and Post-CFM-SB 72-0136)
Figure 803/26-11-02-990-805

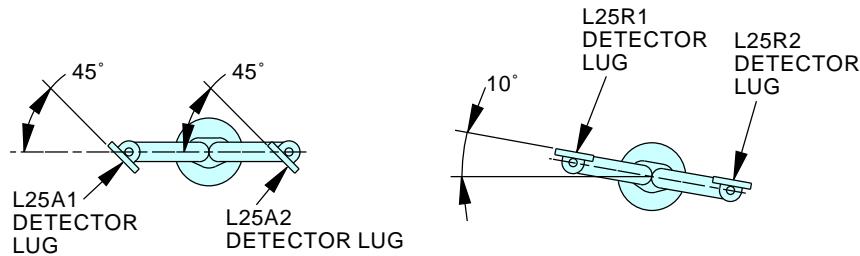
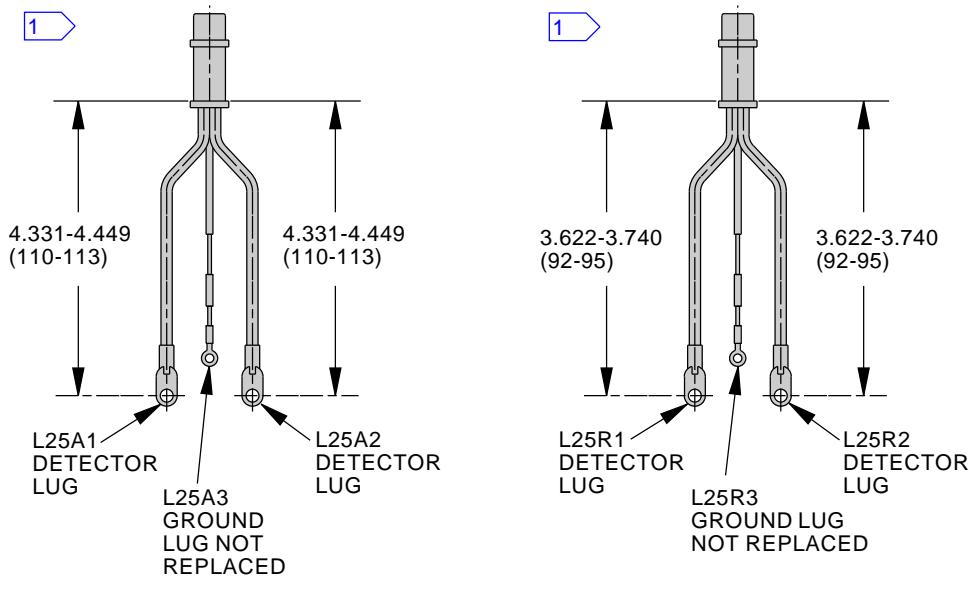
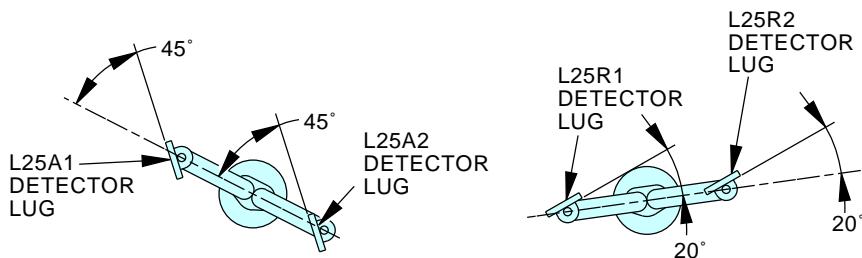
EFFECTIVITY
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SAC CONFIGURATION

DAC CONFIGURATION
NOTE:

DIMENSIONS ARE IN INCHES WITH MILLIMETERS IN PARENTHESES.

FIRE DETECTOR LUG (POST-CFM-SB 72-0269)

MM-00197-01-B

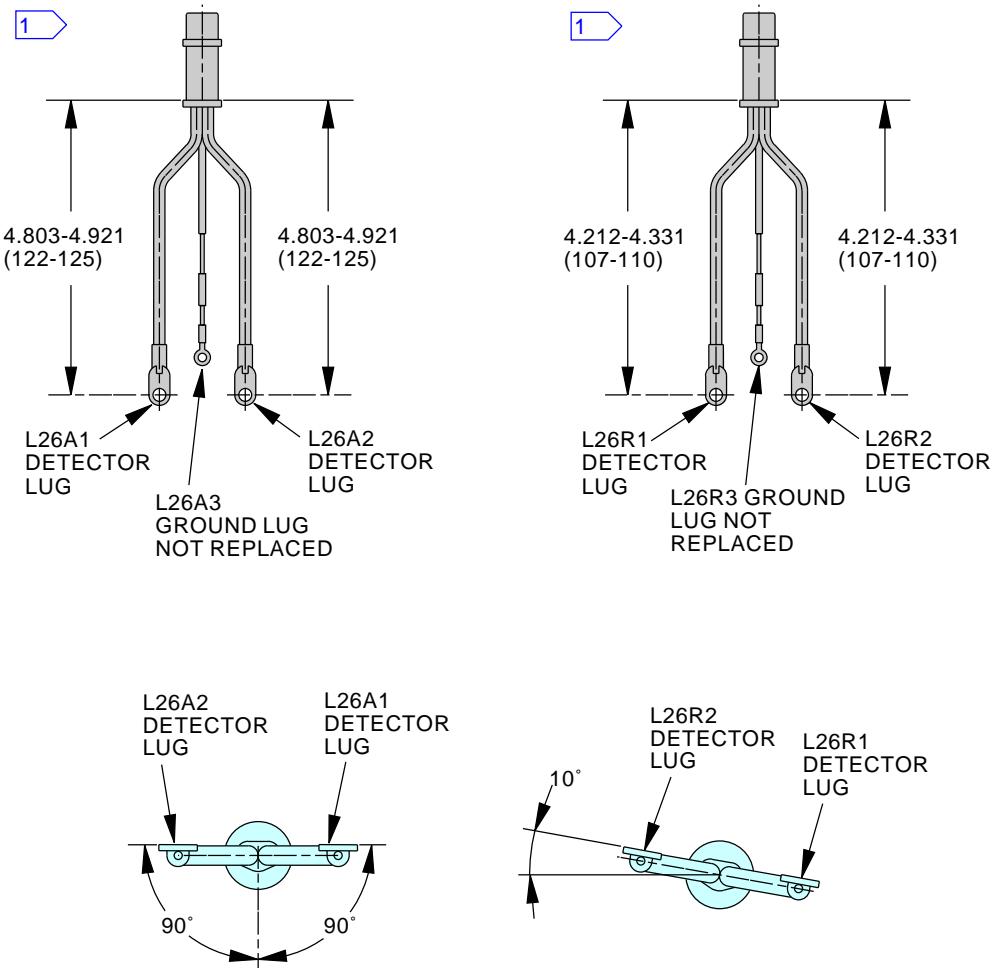
W19665 S0006568063_V3

Position of the Lug on the Harnesses (MW0325)
Figure 804/26-11-02-990-806

EFFECTIVITY
 AKS ALL PRE SB 737-CFM56-7B-72-0258

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SAC AND DAC CONFIGURATIONS
NOTE:

DIMENSIONS ARE IN INCHES WITH MILLIMETERS IN PARENTHESES.

MM-00198-01-B

FIRE DETECTOR LUG (POST-CFM-SB 72-0269)

W19670 S0006568064_V3

Position of the Lug on the Harnesses (MW0326)
Figure 805/26-11-02-990-807

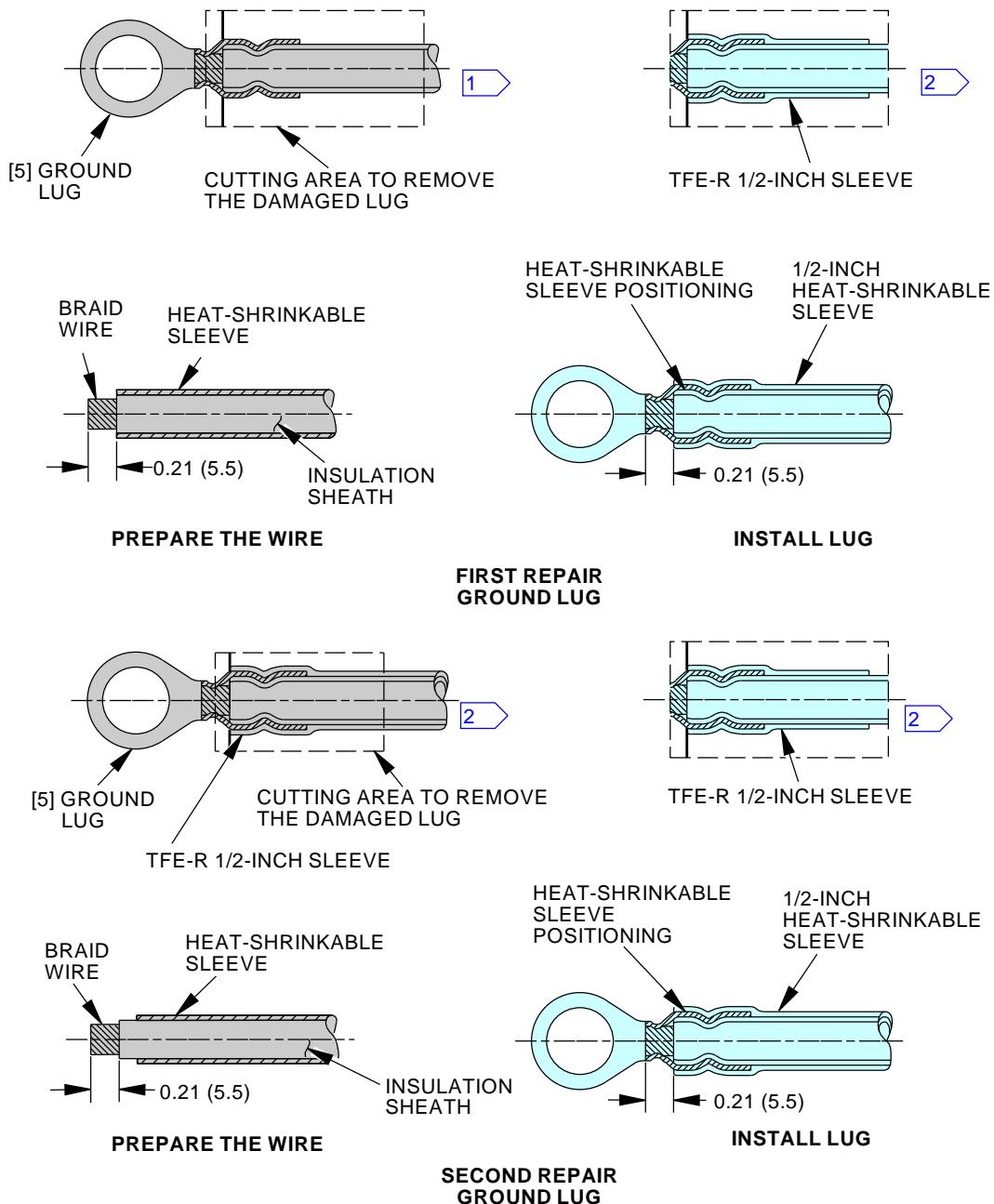
EFFECTIVITY
 AKS ALL PRE SB 737-CFM56-7B-72-0258

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NOTE:

DIMENSIONS ARE IN INCHES WITH MILLIMETERS IN PARENTHESES.

- 1 FIRE DETECTOR LUG (PRE-CFM-SB 72-0136)
2 FIRE DETECTOR LUG (POST-CFM-SB 72-0136)

MM-00195-01-B

W19678 S0006568065_V3

Replacement of Ground Fire Detector Lug
Figure 806/26-11-02-990-808

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AKS ALL POST SB 737-CFM56-7B-72-0258

TASK 26-11-02-960-802

3. Core Fire Detection Wire Harness Terminal Lugs Replacement (Engines POST CFM SB 72-0258 or SB 72-0269)

A. General

CAUTION: DO NOT USE CIRCULAR AND OVAL TERMINAL LUGS IN THE SAME INSTALLATION. DAMAGE TO EQUIPMENT WILL OCCUR.

- (1) Do this procedure if one of the fire detector wire harness terminal lugs or ground lug is broken or almost broken.

NOTE: This procedure is applicable to harnesses configuration CFM SB 72-0269 (second or third repairs) and especially to harnesses configuration CFM SB 72-0258.

- (2) This procedure provides instructions to replace the fire detector wire harness terminal lugs.

NOTE: The harnesses with the new configuration (POST CFM SB 72-0258) have a metallic bobbin ground lug.

B. References

Reference	Title
26-11-00-710-801	Engine Fire Detection - Operational Test (P/B 501)
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)
78-31-00-010-804-F00	Close the Thrust Reverser (Selection) (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-254	Crimping Tool - Burndy Lug (Contact sizes 20 and 22) Part #: M8ND Supplier: 4A389
COM-945	Tool - Crimping (AWG 22 - 10) Part #: 47386 Supplier: 00779
COM-12557	Die Set (contact size 20 and 22) Part #: N14HT Supplier: 4A389 Part #: N14HT-5 Supplier: 4A389
COM-13900	Crimp Die - Tyco (AWG 22 - 10) Part #: 47806-2 Supplier: 00779

D. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735

E. Location Zones

Zone	Area
411	Engine 1 - Engine
421	Engine 2 - Engine

F. Equipment

SUBTASK 26-11-02-480-001

- (1) die set, COM-12557, crimping tool, COM-254 - FCI (Framatome Connector

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AKS ALL POST SB 737-CFM56-7B-72-0258 (Continued)

International)
145, Rue YVES LE COZ
78035 Versailles Cedex
France
or
FCI ELECTRICAL
47, East Industrial Park Drive
P.O. Box 9507
Manchester, NH 03108-9507
USA

NOTE: For Burndy terminal lugs.

- (2) crimp die, COM-13900, crimping tool, COM-945 - AMP Matrix Aerospace
11 Avenue Jean d'Alembert
78190 Trappes FRANCE
or
AMP Incorporated
P.O. Box 3608
Harrisburg, PA 17105
USA

NOTE: For Tyco terminal lugs.

G. Prepare for the Replacement of the Fire Detector Terminal Lug

SUBTASK 26-11-02-040-004

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-02-010-006

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO OPEN THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (2) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

H. Fire Detector Harness Terminal Lug Removal

SUBTASK 26-11-02-800-001

- (1) It is not necessary to remove completely the fire detection harness when you replace a lug. Remove only enough length of the wire harness to provide sufficient access to the lug.

NOTE: The lug at the end of each wire can be replaced two times only. If a third lug replacement is necessary, replace the entire fire detector harness.

EFFECTIVITY
AKS ALL

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AKS ALL POST SB 737-CFM56-7B-72-0258 (Continued)

SUBTASK 26-11-02-350-001

- (2) Removal of the terminal or ground lug (Figure 807).

- (a) To disconnect a ground lug, remove the bolt [1] and the washer [2] which secure the ground lug to the engine bracket.

NOTE: This step is required only for the old configuration harnesses (PRE SB CFM SB 72-0258).

- (b) To disconnect a terminal lug, remove the nut [3], the washer [4] which secure the terminal lugs to the fire detector.
- (c) Remove the lug insulator.
- (d) Cut the cable at the lug barrel. Make sure that the cut at the wire and insulation of the cable is clean and clear.
- (e) Discard the damaged lug.

I. Fire Detector Terminal Lug Replacement

(Figure 807, Figure 808, Figure 809).

CAUTION: MAKE SURE THE LENGTH OF THE WIRE IS SUFFICIENT FOR CRIMPING THE NEW LUG. IF THE WIRE IS CUT TOO SHORT, REPLACE THE HARNESS.

SUBTASK 26-11-02-350-015

CAUTION: DO NOT CAUSE DAMAGE TO THE HEAT-SHRINKABLE SLEEVE OR INSULATION SHEATH WHEN YOU REMOVE THE TFER SLEEVE.

- (1) For harnesses already repaired by CFM SB 72-0136 (first repair), cut and remove the TFER 5/8-inch sleeve.

SUBTASK 26-11-02-350-002

- (2) Remove enough of the heat-shrinkable sleeve so that it will line up flush with the end of the barrel of the replacement lug after installation.

SUBTASK 26-11-02-350-003

- (3) Remove 0.217 ± 0.012 in. (5.5 ± 0.3 mm) of the insulation sheath from the end of the wire.

SUBTASK 26-11-02-350-004

- (4) Make sure the cutting of the heat-shrinkable sleeve and insulation sheath is clear and clean.

SUBTASK 26-11-02-350-005

WARNING: ISOPROPYL ALCOHOL IS FLAMMABLE. AVOID PROLONGED BREATHING OF VAPOR AND PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID CONTACT WITH EYES. CLEAN PARTS IN WELL-VENTILATED AREA AND USE APPROVED SAFETY EQUIPMENT.

- (5) Clean the braid wire and insulation with alcohol, B00130 (CP1041).

SUBTASK 26-11-02-350-006

- (6) Install the terminal lug freely on the wire to check for correct position on the fire detector stud.

NOTE: You must use the Burndy or Tyco terminal lug (7).

- (a) Position the terminal lug (7) on the fire detector stud and mark the lug and wire.
- (b) Remove the lug (7) from the stud.

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

AKS ALL POST SB 737-CFM56-7B-72-0258 (Continued)

SUBTASK 26-11-02-350-007

- (7) Line up the mark on the wire and Burndy or Tyco terminal lug (7), and crimp the lug (7) on the wire with the crimping tool, COM-254 or the crimping tool, COM-945 (Figure 807, Figure 808, Figure 809, Figure 810).

WARNING: DO NOT USE THE AMP CRIMP TOOL & DIE TO CRIMP THE FIRE DETECTOR WIRE HARNESS BURNDY TERMINAL LUGS. DO NOT USE THE FCI CRIMP TOOL & DIE TO CRIMP THE FIRE DETECTOR WIRE HARNESS TYCO TERMINAL LUGS.

BE CAREFUL TO ADJUST THE TOOL AND JAWS BEFORE USING THE FCI OR AMP CRIMP TOOL.

- (a) Take a crimping tool, COM-254 or a crimping tool, COM-945; and the die set, COM-12557 or crimp die, COM-13900; with the jaws, N14HT-5.
- (b) Make sure that the crimping tool is correctly adjusted.
- (c) Position the lug [7] in the crimping jaw hole No. 14.
- (d) Make sure that the lug [7] is located in the right position (Figure 811).
- (e) Close the tool handles just enough to hold the lug [7] within the crimping jaws.
- (f) Insert the stripped wire into the lug barrel.

NOTE: Line up the marks on the lug and wire. Lug orientation must be respected. Lug angular tolerances are 10 percent.

- (g) Crimp the lug ([7] in the following two places with the crimping tool.

NOTE: Close the tool handles fully to crimp the lug [7]. The tool handles will open automatically after the ratchet is released.

- 1) On the braid wire over 0.217 ± 0.012 in. (5.5 ± 0.3 mm).
- 2) On the insulation sheath only.

NOTE: For terminal lugs, the heat-shrinkable sleeve is located at the end of the lug barrel.

- (h) Remove the crimped lug from the crimping jaws.

J. Fire Detector Harness Terminal Lug Installation

SUBTASK 26-11-02-350-014

- (1) Installation of the terminal or ground lug (Figure 807).

- (a) To install a ground lug, position the lug on the engine bracket, and install the washer [2] and bolt [1].

NOTE: This step is necessary only for the old configuration harnesses (PRE CFM SB 72-0258).

- 1) Tighten the bolt to 102.5 ± 7.5 in-lb (11.6 ± 0.9 N·m).

- (b) To install a terminal lug, position the lug on the fire detector, and install the washer [4] and nut [3].

- 1) Tighten the nut to 30 ± 5 in-lb (3.4 ± 0.6 N·m).

EFFECTIVITY
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AKS ALL POST SB 737-CFM56-7B-72-0258 (Continued)

K. Terminal Lug Replacement Test

SUBTASK 26-11-02-440-002

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-11-02-710-003

- (2) Do this task: Engine Fire Detection - Operational Test, TASK 26-11-00-710-801.

L. Put the Airplane Back to its Usual Condition

SUBTASK 26-11-02-010-007

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

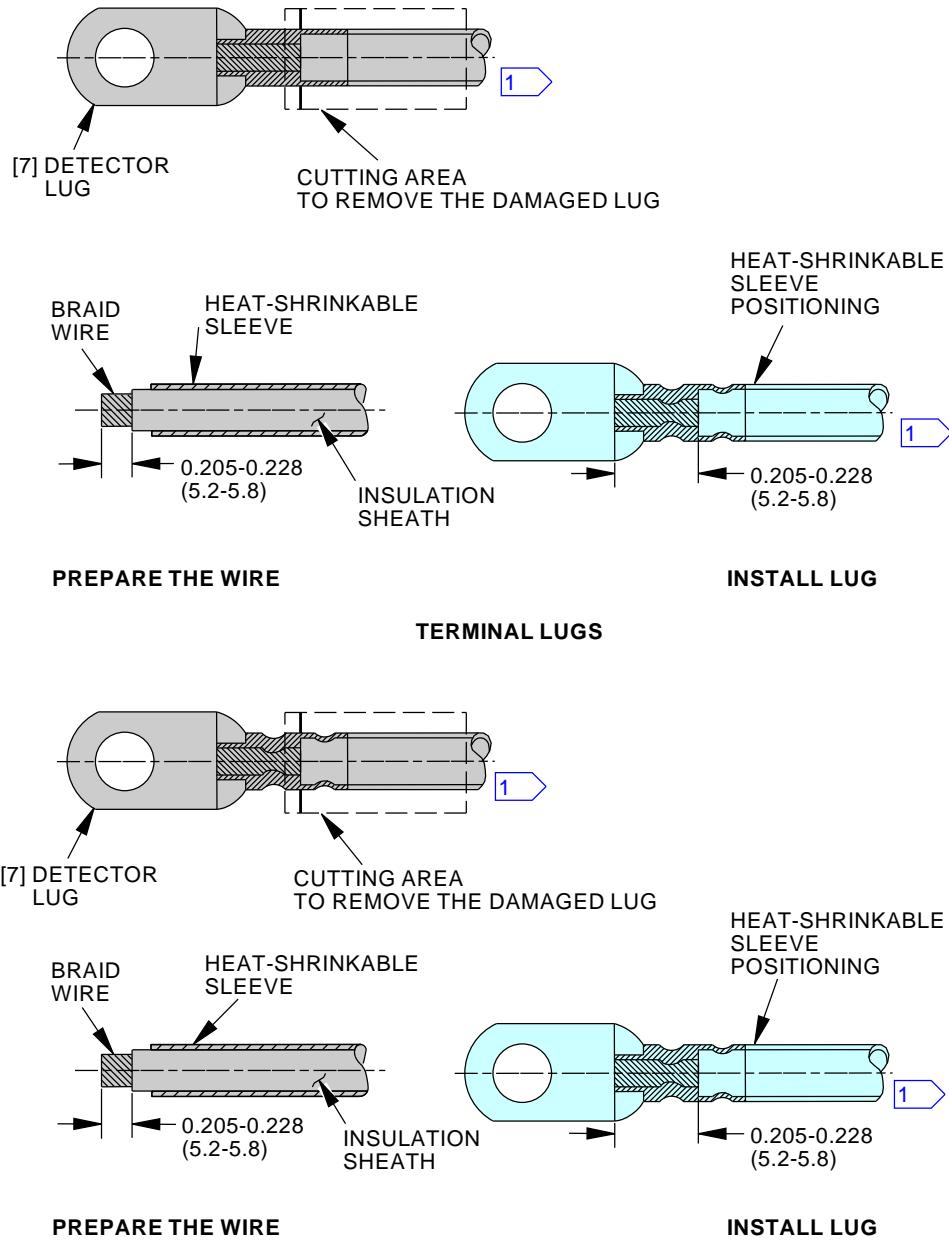
- (1) Do this task: Close the Thrust Reverser (Selection), TASK 78-31-00-010-804-F00.

———— END OF TASK ————

EFFECTIVITY
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NOTE:

DIMENSIONS ARE IN INCHES WITH MILLIMETERS IN PARENTHESES.

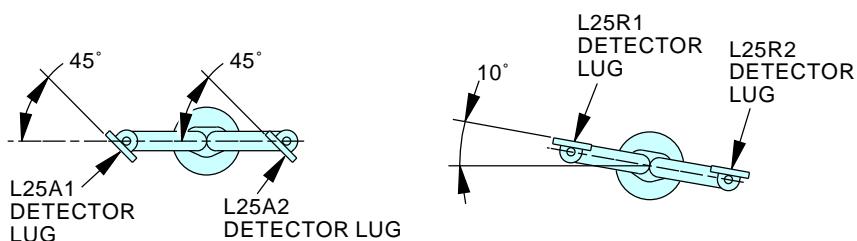
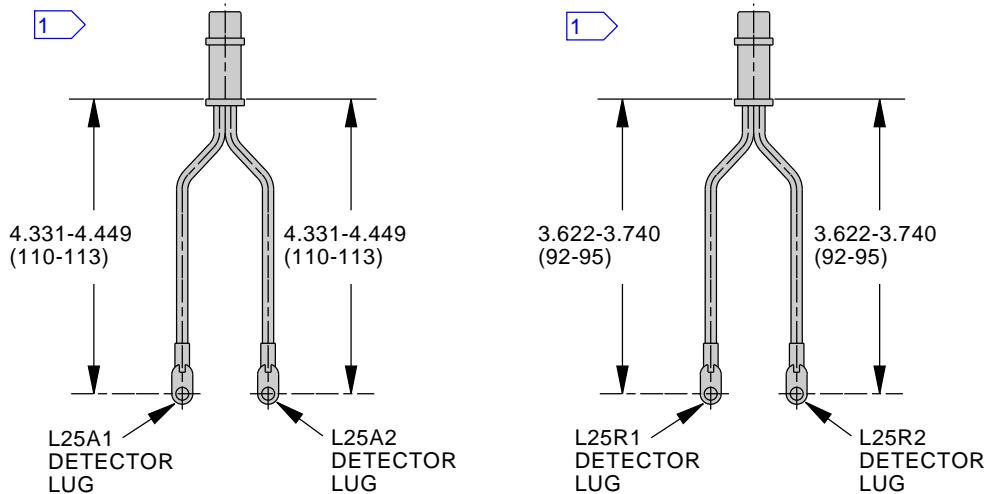
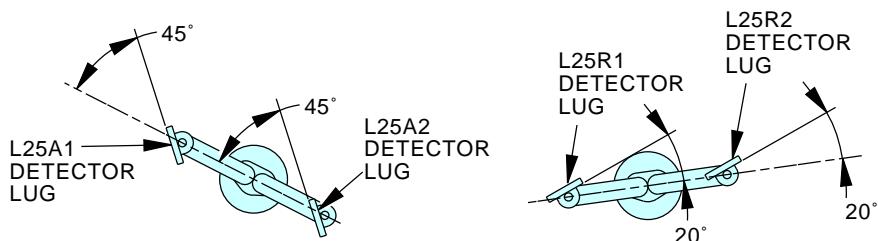
1 TERMINAL FIRE DETECTOR LUGS (POST-CFM-SB 72-0269)

MM-00230-00-B

W19690 S0006568067_V3

Engine Fire Detector Terminal Lug Replacement
Figure 807/26-11-02-990-809

26-11-02


SAC CONFIGURATION

DAC CONFIGURATION
NOTE:

DIMENSIONS ARE IN INCHES WITH MILLIMETERS IN PARENTHESES.

MM-00231-00-B

FIRE DETECTOR LUGS (POST-CFM-SB 72-0269)

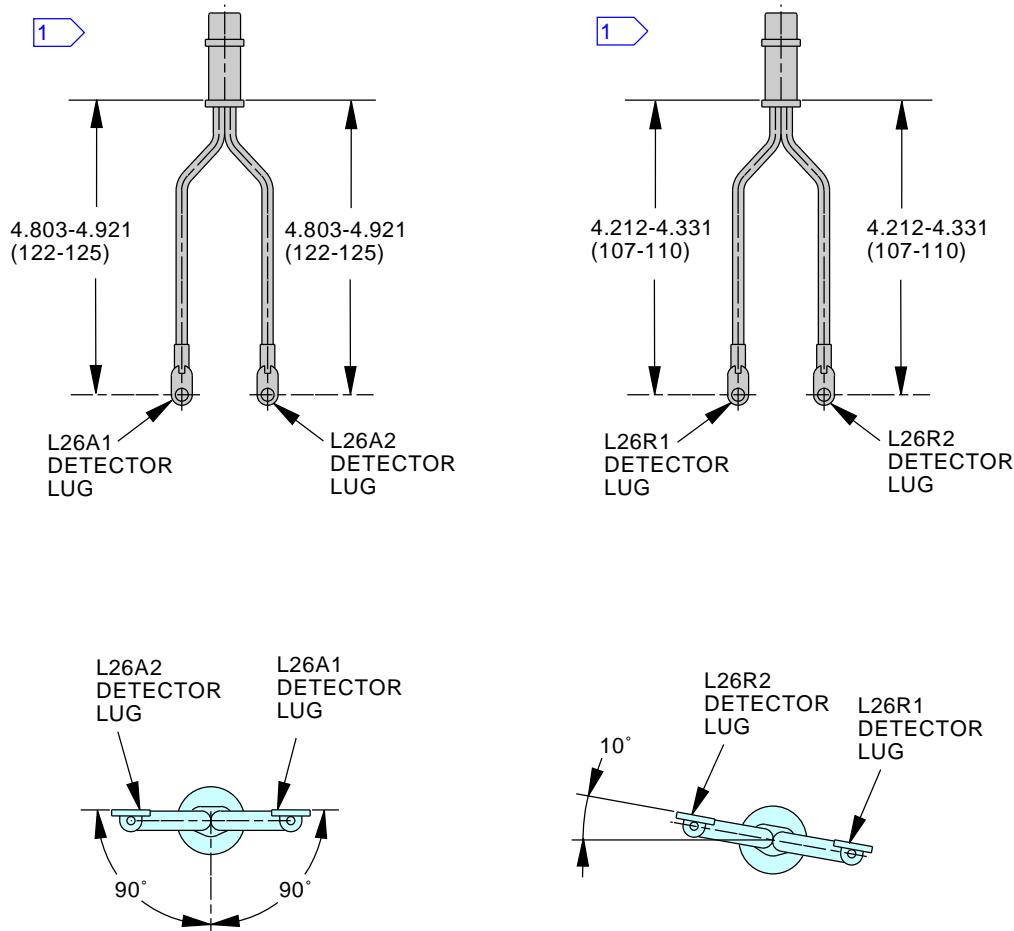
W19817 S0006568068_V3

**Position of the Lug On the Harnesses (MW0325)
Figure 808/26-11-02-990-810**

EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0258

26-11-02

D633A101-AKS



SAC AND DAC CONFIGURATIONS

NOTE:

DIMENSIONS ARE IN INCHES WITH MILLIMETERS IN PARENTHESES.

MM-00232-00-B

FIRE DETECTOR LUGS (POST-CFM-SB 72-0269)

W19812 S0006568069_V3

**Position of the Lug on the Harnesses (MW0326)
Figure 809/26-11-02-990-811**

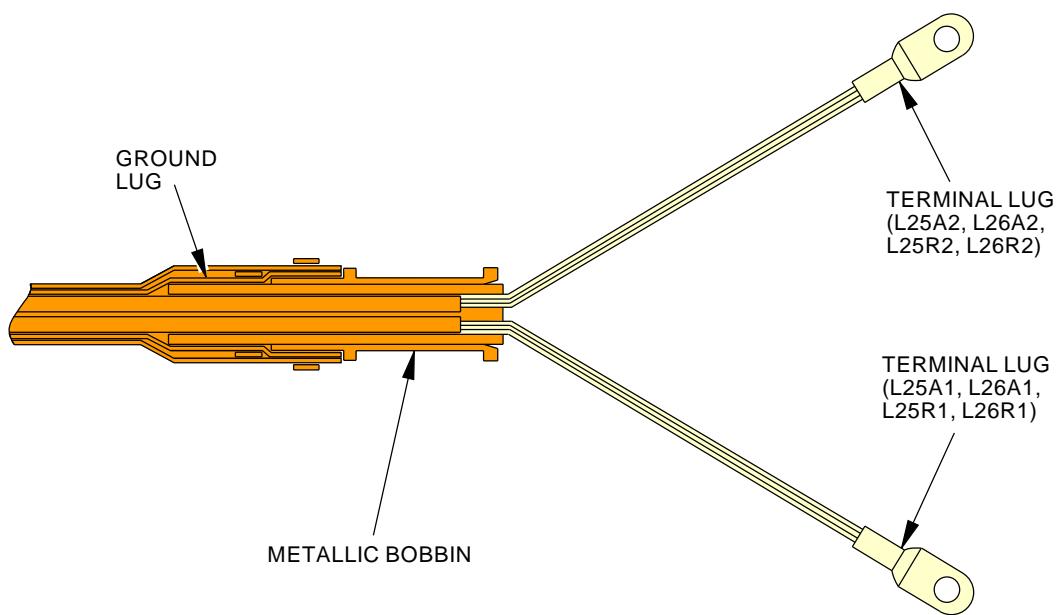
EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0258

26-11-02

D633A101-AKS



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MM-00199-01-B

W19713 S0006568070_V3

Position of the Lug on the Harnesses (MW0325 and MW0326)
Figure 810/26-11-02-990-812

EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0258

26-11-02

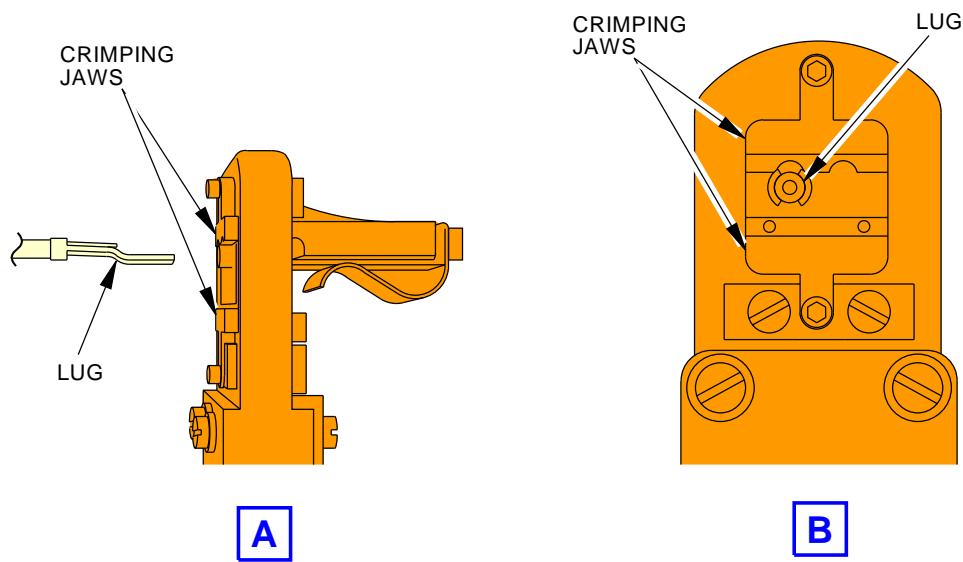
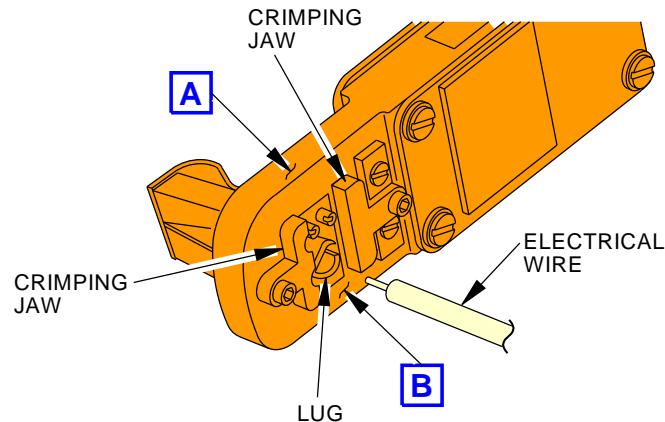
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MM-00201-01-B

W19708 S0006568071_V2

Lug Crimping (Post-CFM-SB 72-0258)
Figure 811/26-11-02-990-813

EFFECTIVITY
AKS ALL POST SB 737-CFM56-7B-72-0258

26-11-02

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LAVATORY SMOKE DETECTION - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure does a test of the lavatory smoke detectors.
- C. Each lavatory has a smoke detector installed in the ceiling. When the concentration of smoke at the sensor gets to a preset threshold, the smoke detector alarm occurs.
- D. You cannot adjust the sensitivity of the smoke detector. If the smoke detector does not work correctly, replace the smoke detector.
- E. Refer to Figure 501 determine if JAMCO ionization smoke detectors or KIDDE PHOTOELECTRIC detectors are fitted to airplane.

AKS ALL; AIRPLANES WITH KIDDE PHOTOELECTRIC DETECTORS

TASK 26-14-00-710-802

2. Lavatory Smoke Detection - Self Test

(Figure 501)

A. References

Reference	Title
24-22-00-860-813	Supply External Power (P/B 201)

B. Self Test using the self test switch on the smoke detectors

SUBTASK 26-14-00-860-013

- (1) Do this task: Supply External Power, TASK 24-22-00-860-813.

SUBTASK 26-14-00-860-014

- (2) Make sure that this circuit breaker is closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	12	C01125	LAVATORY SMOKE

SUBTASK 26-14-00-710-010

- (3) Push and hold the SELF TEST switch on the smoke detector with a small screwdriver, or other appropriate tool.

SUBTASK 26-14-00-710-011

- (4) Make sure these alarm indications occur:

(a) Lavatories:

- 1) The LED status indicator turns to a solid red light on the smoke detector.
- 2) You can hear the smoke detector alarm horn in the lavatory.

SUBTASK 26-14-00-710-013

- (5) Release the SELF TEST switch.

(a) Make sure all external alarm indications stop.

AKS ALL

———— END OF TASK ————

EFFECTIVITY

AKS ALL

26-14-00



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TASK 26-14-00-730-801

3. Lavatory Smoke Detection - Smoke Test

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
24-22-00-860-813	Supply External Power (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-11202	Smoke Generator - Lavatory/Crew Rest Smoke Detector (or 737 Cargo Area Type Smoke Detectors) Part #: 25S Supplier: 61908
	Part #: SOLOA4 Supplier: 1WU32

C. Location Zones

Zone	Area
200	Upper Half of Fuselage
211	Flight Compartment - Left

D. Prepare for the Test

SUBTASK 26-14-00-860-001

- (1) Do this task: Supply External Power, TASK 24-22-00-860-813.

SUBTASK 26-14-00-860-002

- (2) Make sure that this circuit breaker is closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	12	C01125	LAVATORY SMOKE

E. Smoke Test

AKS ALL; AIRPLANES WITH KIDDE PHOTOELECTRIC DETECTORS

SUBTASK 26-14-00-860-015

- (1) Make sure the LED status indicator on the lavatory smoke detector is a solid green light.

AKS ALL

SUBTASK 26-14-00-730-007

- (2) Use a smoke generator, COM-11202, to make smoke adjacent to the lavatory smoke detector.

SUBTASK 26-14-00-750-003

- (3) Make sure these alarm indications occur:

- (a) Lavatories:

AKS ALL; AIRPLANES WITH KIDDE PHOTOELECTRIC DETECTORS

- 1) The LED status indicator on the smoke detector is a solid red light.



26-14-00



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AKS ALL; AIRPLANES WITH KIDDE PHOTOELECTRIC DETECTORS (Continued)

- 2) You can hear the alarm horn from the smoke detector.

SUBTASK 26-14-00-730-008

- (4) Push the horn cancel switch on the smoke detector with an applicable tool
 - (a) Make sure all of the alarm indications stop.

AKS ALL

SUBTASK 26-14-00-860-004

- (5) Clear the smoke from the lavatory.

NOTE: If the smoke is not cleared from the lavatory within 60 seconds, the smoke indications will occur again.

SUBTASK 26-14-00-730-005

- (6) Do the Smoke Test again for each of the other lavatory smoke detectors.

F. Put the Airplane Back to Its Usual Condition

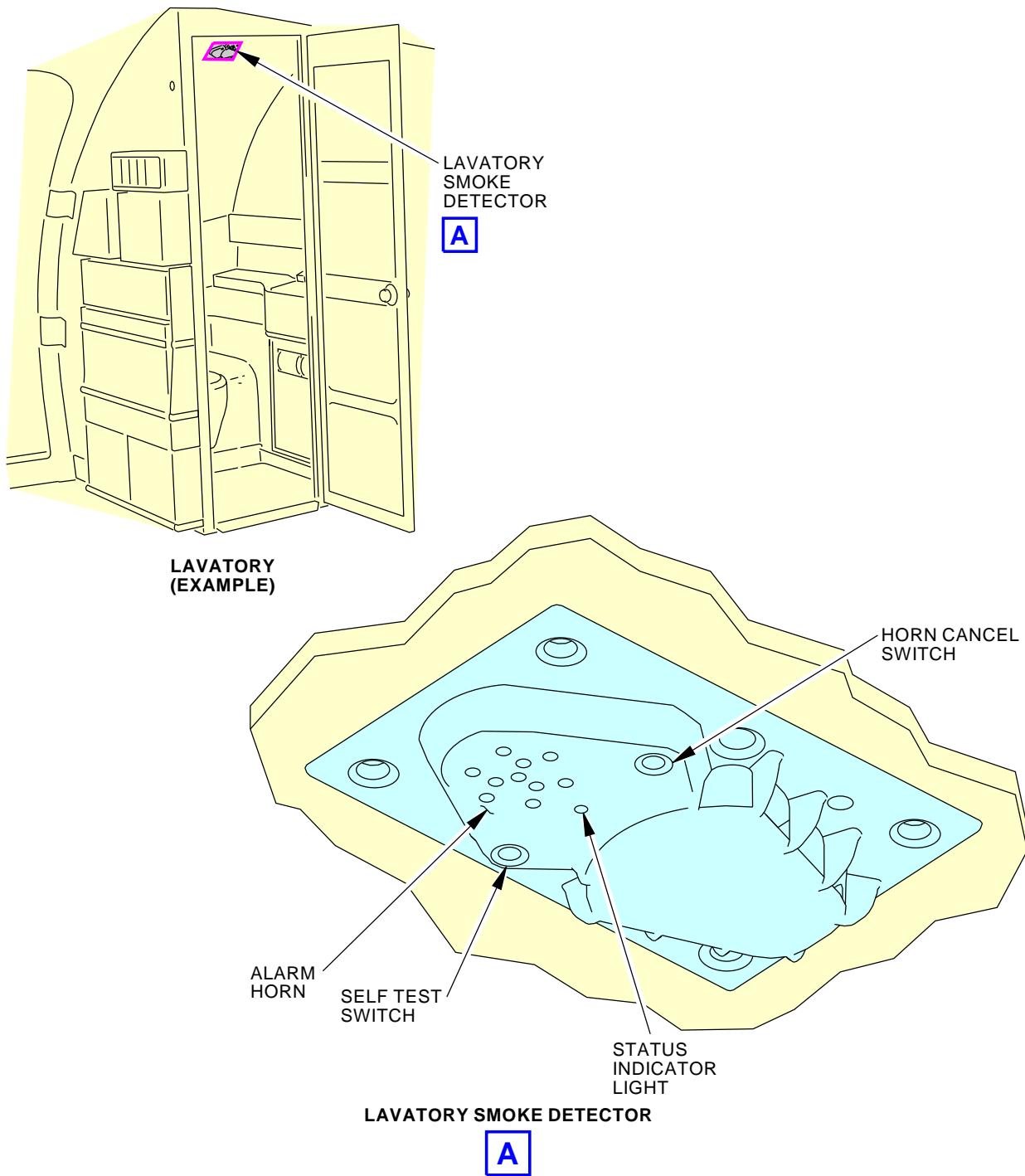
SUBTASK 26-14-00-860-005

- (1) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————



26-14-00



1895411 S0000346465_V2

Lavatory Smoke Detection Adjustment
Figure 501/26-14-00-990-801

EFFECTIVITY
**AKS ALL; AIRPLANES WITH KIDDE
 PHOTOELECTRIC DETECTORS**

26-14-00

D633A101-AKS

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LAVATORY SMOKE DETECTOR - REMOVAL/INSTALLATION

1. **General**

- A. This procedure has these tasks:
 - (1) A removal of the lavatory smoke detector.
 - (2) An installation of the lavatory smoke detector.
- B. Jamco and Kidde lavatory smoke detectors are interchangeable.

TASK 26-14-01-000-802

2. **Lavatory Smoke Detector Removal (Kidde)**

Figure 401

A. **General**

- (1) This task gives instructions to remove the Lavatory Smoke Detector.

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Prepare for the Removal**

SUBTASK 26-14-01-860-010

- (1) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	12	C01125	LAVATORY SMOKE

D. **Lavatory Smoke Detector Removal**

SUBTASK 26-14-01-020-007

- (1) Disconnect the electrical connector [12].

SUBTASK 26-14-01-020-008

- (2) Remove the fasteners [14] which attach the smoke detector [11] to the mounting bracket [13].

SUBTASK 26-14-01-020-009

- (3) Remove the smoke detector [11].

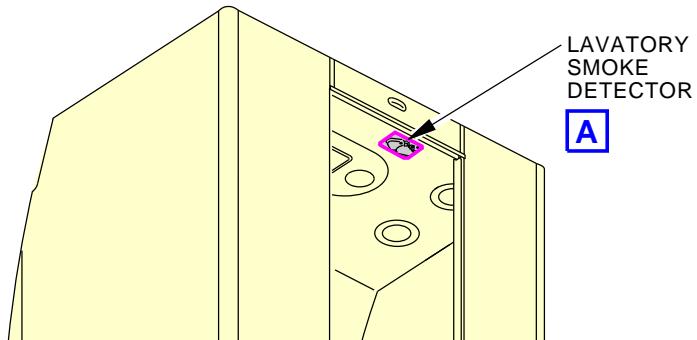
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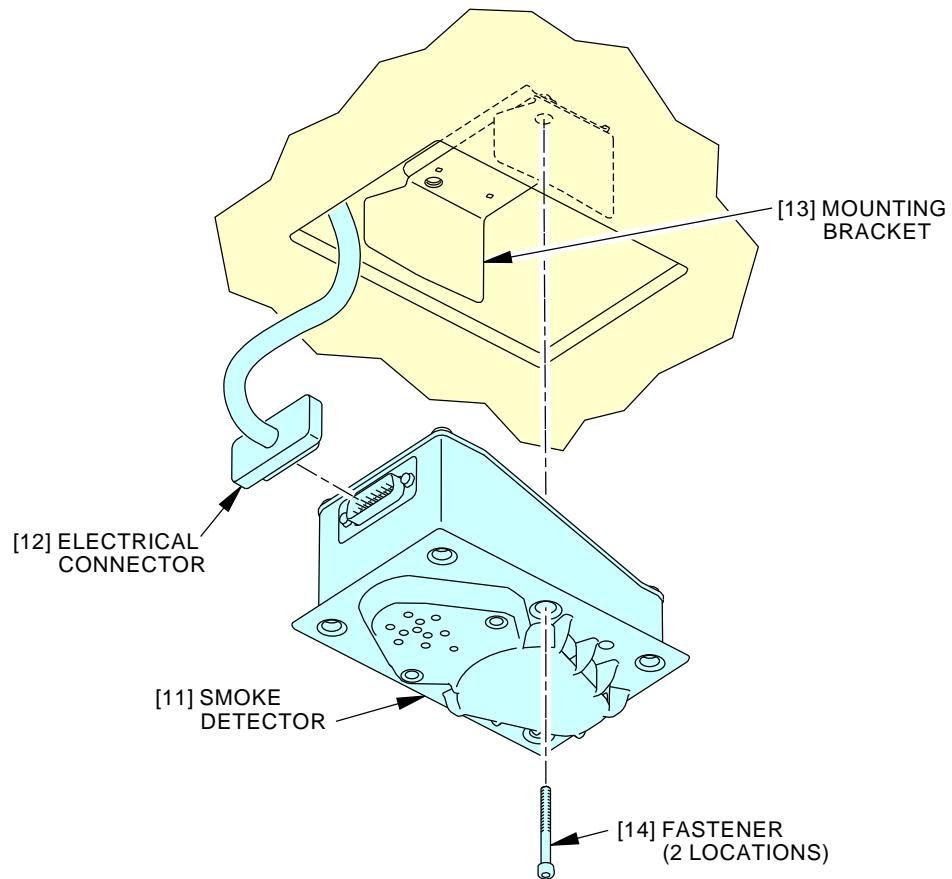
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LAVATORY (EXAMPLE)



LAVATORY SMOKE DETECTOR



1895422 S0000346841_V3

Lavatory Smoke Detector Installation
Figure 401/26-14-01-990-804

EFFECTIVITY
AKS ALL

26-14-01



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TASK 26-14-01-400-802

| 3. **Lavatory Smoke Detector Installation (Kidde)**

Figure 401

A. General

- (1) This task gives instructions to install the Lavatory Smoke Detector.

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
26-14-00-710-802	Lavatory Smoke Detection - Self Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Installation

SUBTASK 26-14-01-860-011

- (1) Make sure that this circuit breaker is open and has safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	12	C01125	LAVATORY SMOKE

E. Lavatory Smoke Detector Installation

SUBTASK 26-14-01-420-008

- (1) Attach the smoke detector [11] to the mounting bracket [13].

SUBTASK 26-14-01-420-009

- (2) Tighten the two fasteners [14] to 9.5 ± 0.5 in-lb (1.1 ± 0.1 N·m).

SUBTASK 26-14-01-420-010

- (3) Connect the electrical connector [12].

SUBTASK 26-14-01-860-007

- (4) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	12	C01125	LAVATORY SMOKE

F. Lavatory Smoke Detector Installation Test

SUBTASK 26-14-01-710-003

- (1) Do this task: Lavatory Smoke Detection - Self Test, TASK 26-14-00-710-802.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 26-14-01-840-002

- (1) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-14-01



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LAVATORY SMOKE DETECTOR - CLEANING/PAINTING

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has a task which cleans the lavatory smoke detector.
- C. Each lavatory has a smoke detector installed in the ceiling.

AKS ALL; AIRPLANES WITH KIDDE PHOTOELECTRIC DETECTORS

TASK 26-14-01-100-802

2. Lavatory Smoke Detector Cleaning

(Figure 701)

NOTE: This procedure is a scheduled maintenance task.

A. **References**

Reference	Title
26-14-01-000-802	Lavatory Smoke Detector Removal (Kidde) (P/B 401)

B. **Tools/Equipment**

Reference	Description
STD-1086	Gloves - Rubber

C. **Consumable Materials**

Reference	Description	Specification
B00065	Alcohol - Denatured, Ethyl (Ethanol)	AMS 3002 (Supersedes O-A-396)
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A

D. **Location Zones**

Zone	Area
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

E. **Lavatory Smoke Detector Cleaning**

SUBTASK 26-14-01-100-001

- (1) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	12	C01125	LAVATORY SMOKE

SUBTASK 26-14-01-000-001

WARNING: KEEP THIS MATERIAL AWAY FROM SPARKS, FLAME, AND HEAT BECAUSE IT IS FLAMMABLE. PUT ON A RESPIRATOR. DO NOT BREATHE THE FUMES. MAKE SURE THAT THERE IS SUFFICIENT AIRFLOW. DO NOT GET THIS MATERIAL IN YOUR MOUTH, EYES, OR ON YOUR SKIN. CLEAN BARE SKIN FULLY AFTER YOU USE THIS MATERIAL. THIS MATERIAL CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (2) Put on the rubber gloves, STD-1086.

EFFECTIVITY
AKS ALL

26-14-01



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AKS ALL; AIRPLANES WITH KIDDE PHOTOELECTRIC DETECTORS (Continued)

- (3) Remove the dirt from the exterior of the smoke detector [1] with a cotton wiper, G00034 soaked with alcohol, B00065.

CAUTION: DO NOT CLEAN THE KIDDE SMOKE DETECTOR SENSORS. YOU MUST SEND THESE TO THE SUPPLIER TO CLEAN. IF YOU CLEAN THE SENSOR, YOU CAN CAUSE DAMAGE TO THE SENSORS.

- (4) If smoke detector sensor needs to be cleaned, then remove detector (TASK 26-14-01-000-802) and send it to supplier for cleaning.

SUBTASK 26-14-01-860-012

- (5) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	12	C01125	LAVATORY SMOKE

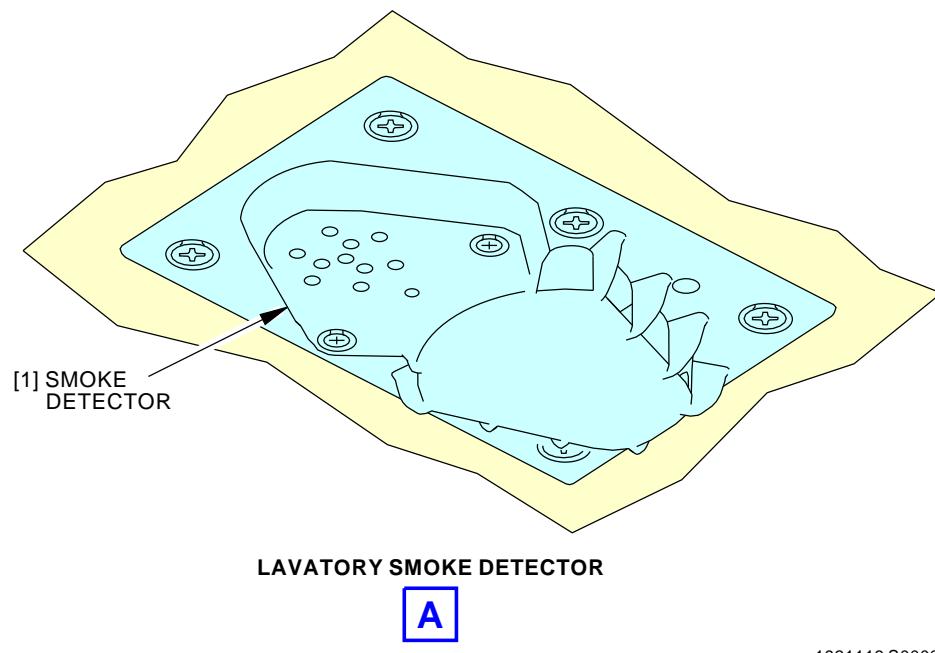
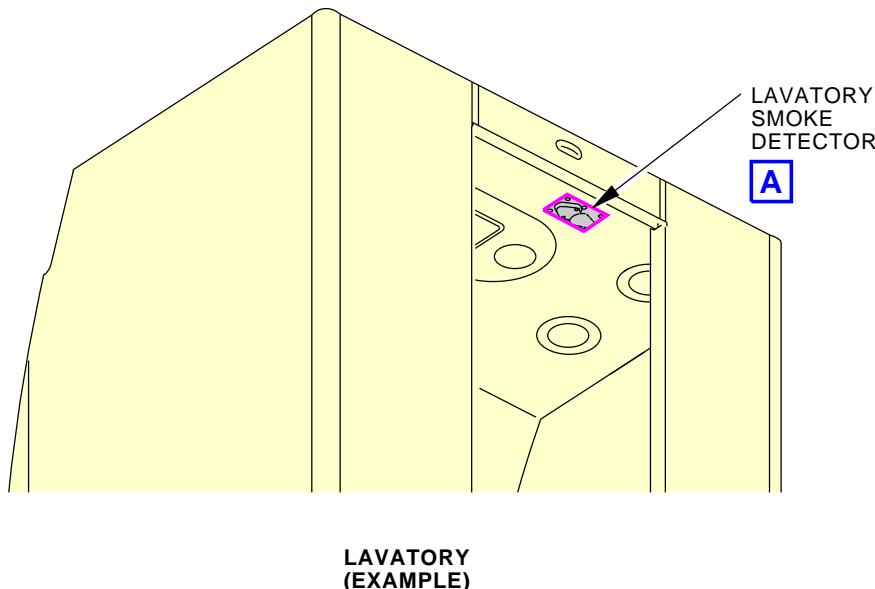
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EFFECTIVITY
AKS ALL

26-14-01



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1921113 S0000360283_V2

Lavatory Smoke Detector Cleaning
Figure 701/26-14-01-990-805

EFFECTIVITY
AKS ALL; AIRPLANES WITH KIDDE
PHOTOELECTRIC DETECTORS

26-14-01



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APU FIRE DETECTION - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) APU fire detection - deactivation.
 - (2) APU fire detection - activation.

TASK 26-15-00-040-801

2. APU Fire Detection - Deactivation

A. General

- (1) This task will deactivate the APU fire detection system.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Procedure

SUBTASK 26-15-00-020-005

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

D. APU Fire Detection - Tryout

NOTE: This tryout is to make sure that the APU fire detection system is in a zero energy state.

SUBTASK 26-15-00-210-001

- (1) Move and hold the TEST switch on the Fire Control Panel, P8-1, to the OVHT/FIRE position.
- (a) On the Fire Control Panel, make sure that none of these lights come on:
 - 1) APU Fire Switch light.
 - (b) On the Pilot's Glareshield, P7, make sure that none of these lights come on:
 - 1) The Captain's and First Officer's MASTER CAUTION lights.
 - 2) The Captain's and First Officer's FIRE WARN lights.
 - 3) The OVHT/DET light.
 - (c) Make sure the flight compartment fire bell in the Aural Warning Module, M315, does not come on.
 - (d) In the right main wheel well, make sure these conditions occur:
 - 1) The APU remote fire light, on the P28 panel, does not come on.
 - 2) The APU fire warning horn does not come on.

EFFECTIVITY
AKS ALL

26-15-00



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SUBTASK 26-15-00-210-002

- (2) Release the TEST switch on the Engine and APU Fire Control Panel.

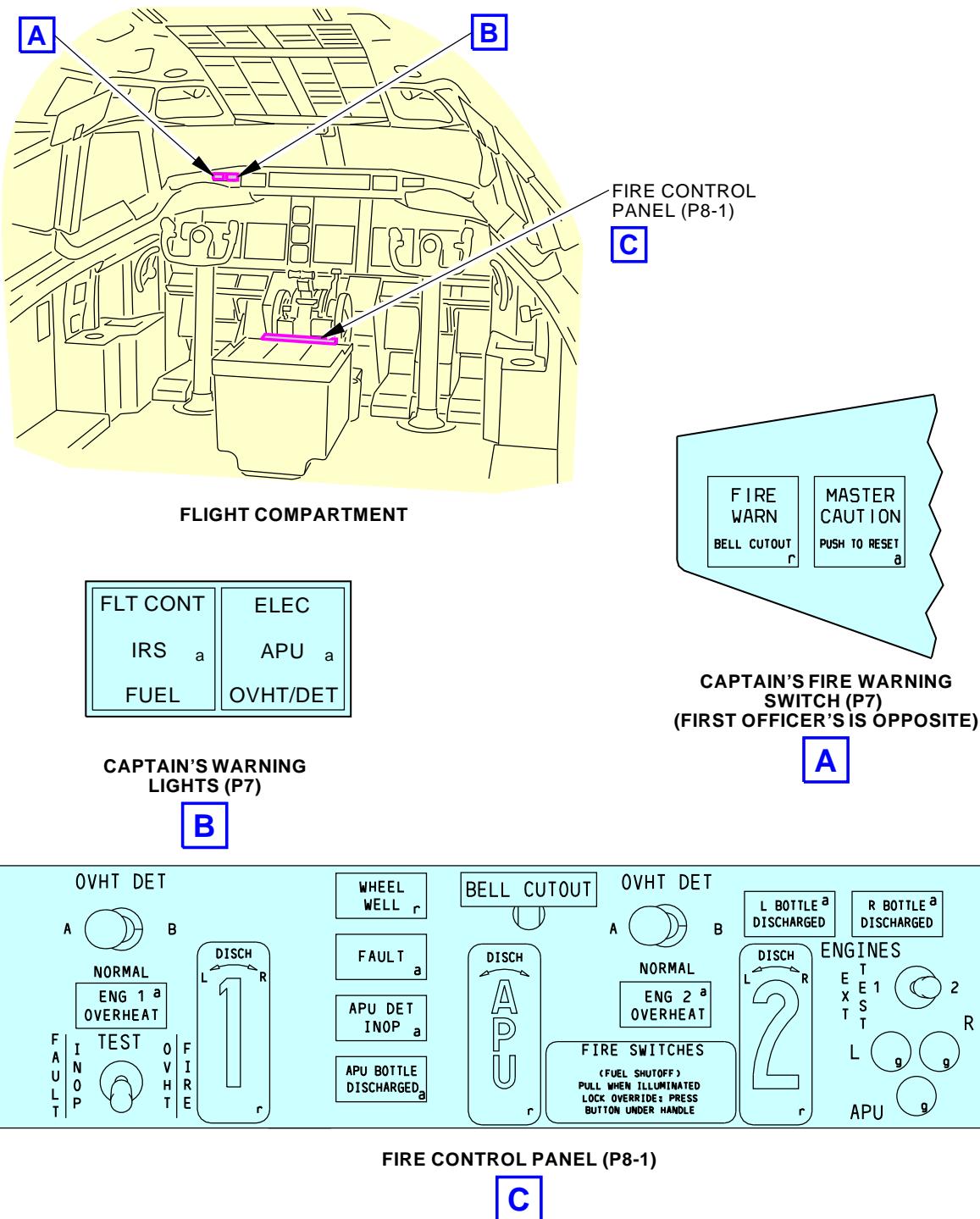
———— END OF TASK ——

— EFFECTIVITY —
AKS ALL

26-15-00

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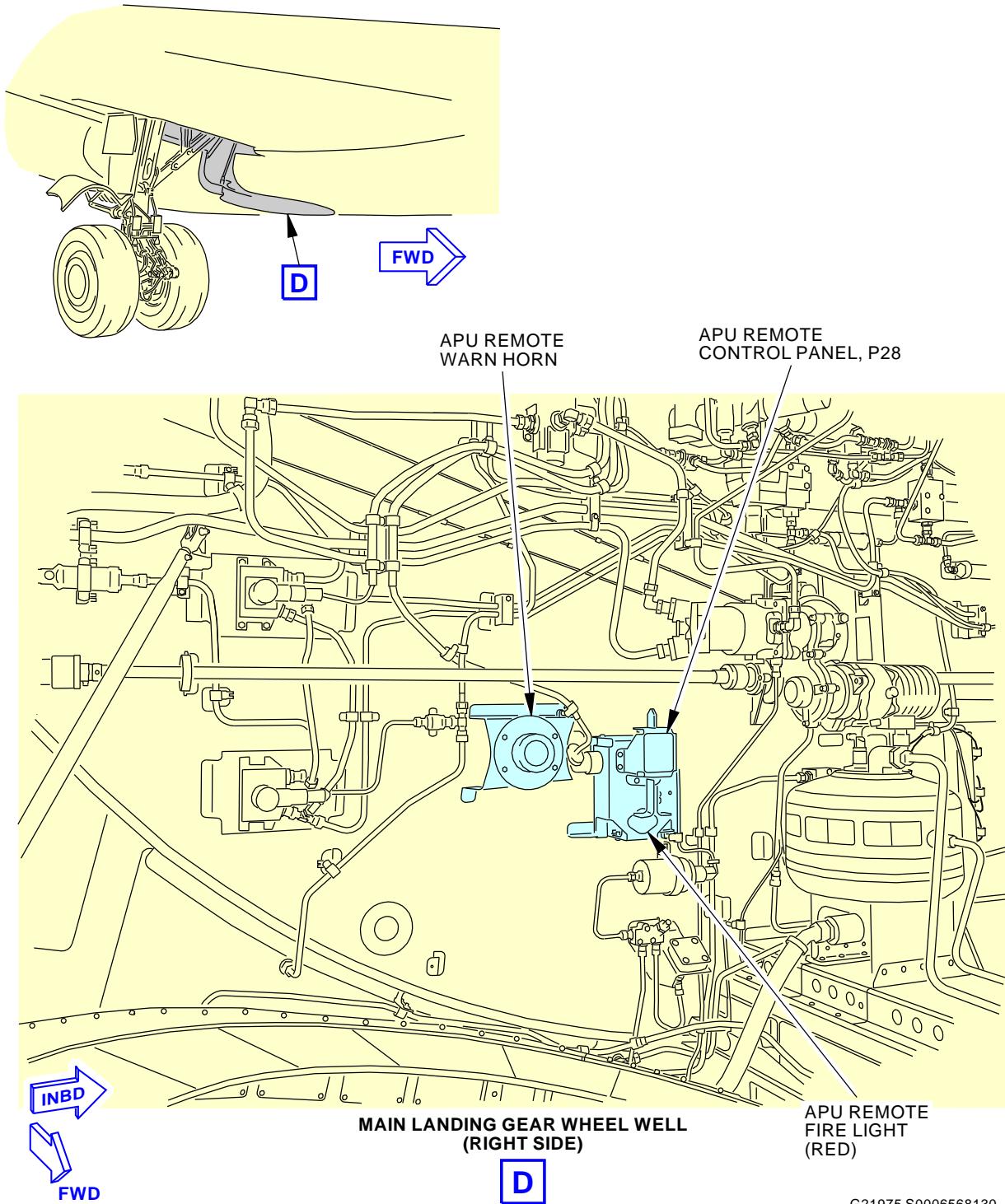
APU Fire Detection System
Figure 201/26-15-00-990-805 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

26-15-00

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G21975 S0006568130_V2

APU Fire Detection System
Figure 201/26-15-00-990-805 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

26-15-00

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TASK 26-15-00-440-801

3. APU Fire Detection - Activation

(Figure 201)

A. General

- (1) This task will activate the APU fire detection system.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Procedure

SUBTASK 26-15-00-420-005

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-15-00



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APU FIRE DETECTION - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure consists of these tasks:
 - (1) APU Fire Detection - Operational Test.
 - (2) APU Fire Detection Loop Resistance - System Test.
 - (3) APU Fire Detection Circuit - System Test.

TASK 26-15-00-710-801

2. APU Fire Detection - Operational Test

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) The Operational Test does a check of the APU Fire Detection System without disturbing the detection system and it only uses the equipment that is on the airplane. This test will verify the circuit from the Engine and APU Fire Detection Control Module, M279 to the Fire Control Panel, P8-1, and to the APU Remote Panel, P28. The test will verify that the Engine and APU Fire Detection Control Module, which continuously monitors the detection loops, operates correctly.

NOTE: The FIRE WARN lights and the ALARM BELL are not activated if the APU fire detection system is inoperative. Only if the engines and APU are functioning properly will the FIRE WARN lights and ALARM BELL be activated. The circuit design precludes latent failure modes due to the parallel path of the test circuit and the actuation circuit.

NOTE: If AC power is removed (no power on main buses) and if there is a faulty APU LOOP, the FIRE BELL, the FIRE WARNING light, the MASTER CAUTION and the OVHT/DET lights are not activated.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Operational Test

SUBTASK 26-15-00-860-001

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.



26-15-00



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SUBTASK 26-15-00-860-002

- (2) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-15-00-860-003

- (3) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

E. Do the FIRE/OVHT Test

SUBTASK 26-15-00-710-001

- (1) Move and hold the TEST switch on the Fire Control Panel, P8-1, to the OVHT/FIRE position.

NOTE: When performing the Fire/OVHT Test with a faulted APU fire detector loop, the MASTER CAUTION lights are off, the FIRE WARN and OVHT/DET lights are off, the Fire Bell does not sound and the APU DET INOP light will be on.

NOTE: Ignore the indication lights for the engine and wheel well detection system and the indications on the Engine and APU Fire Detection Control Module, M279, in the Electronic Equipment Bay.

- (a) On the Fire Control Panel, make sure these lights come on:
 - 1) APU Fire Switch light (Red).
- (b) On the Pilot's Glareshield, P7, make sure these lights come on:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The Captain's and First Officer's FIRE WARN lights (Red).
 - 3) The OVHT/DET light (Amber).
- (c) Make sure the flight compartment fire bell in the Aural Warning Module, M315, comes on.
- (d) In the right main wheel well, make sure these conditions occur:
 - 1) The APU remote fire light (red), on the P28 panel, flashes on and off continuously.
 - 2) The APU fire warning horn comes on.

SUBTASK 26-15-00-710-002

- (2) Release the TEST switch on the Engine and APU Fire Control Panel.

- (a) On the Engine and APU Fire Control Panel, make sure these lights go off:
 - 1) APU Fire Switch light (Red).
- (b) On the Pilot's Glareshield, make sure these lights go off:
 - 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The Captain's and First Officer's FIRE WARN lights (Red).
 - 3) The OVHT/DET light (Amber).
- (c) Make sure the flight compartment fire bell in the Aural Warning Module, M315, stops.
- (d) In the right main wheel well, make sure these conditions occur:



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- 1) The APU remote fire light (red), on the P28 panel, goes off.
- 2) The APU fire warning horn stops.

F. Do the FAULT/INOP Test from the Engine and APU Fire Control Panel, P8-1

SUBTASK 26-15-00-710-003

- (1) Move and hold the TEST switch on the Engine and APU Fire Control Panel to the FAULT/INOP position.

NOTE: Ignore the indication lights for the engine detection system and the indications on the Engine and APU Fire Detection Control Module, M279, in the Electronic Equipment Bay.

- (a) On the Engine and APU Fire Control Panel, make sure these lights come on:

- 1) APU DET INOP light (Amber).

NOTE: When performing the FAULT/INOP Test with a faulted APU detector loop, the APU DET INOP light will stay on, the MASTER CAUTION lights are off and the FAULT light will come on during the test.

- 2) FAULT light (Amber)

- (b) On the Pilot's Glareshield, P7, make sure these lights come on:

- 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The OVHT/DET light (Amber).

SUBTASK 26-15-00-710-004

- (2) Release the TEST switch on the Engine and APU Fire Control Panel.

- (a) On the Engine and APU Fire Control Panel, make sure these lights are off:

- 1) APU DET INOP light (Amber).
 - 2) FAULT light (Amber)

- (b) On the Pilot's Glareshield, P7, make sure these lights are off:

- 1) The Captain's and First Officer's MASTER CAUTION lights (Amber).
 - 2) The OVHT/DET light (Amber).

G. Do the FAULT/INOP Test from the Engine and APU Fire Detection Control Module, M279.

SUBTASK 26-15-00-710-005

- (1) Push and hold the FAULT/INOP TEST switch on the Engine and APU Fire Detection Control Module, in the Electrical and Electronics Compartment.

NOTE: Ignore the indications for the engine detection system and the indications that will occur in the flight compartment on the Engine and APU Fire Control Panel, P8-1, and the Pilot's Glareshield, P7.

- (a) On the Engine and APU Fire Detection Control Module, make sure these lights come on:

- 1) APU (Amber).
 - 2) The three FAULT CODE lights are ON-ON-ON.

SUBTASK 26-15-00-710-006

- (2) Release the FAULT/INOP TEST switch on the Engine and APU Fire Detection Control Module.

- (a) On the Engine and APU Fire Detection Control Module, make sure these lights are off:

- 1) APU (Amber).
 - 2) The three FAULT CODE lights are OFF-OFF-OFF.

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H. Put the Airplane Back to its Usual Condition

SUBTASK 26-15-00-860-004

- (1) Close this circuit breaker:

F/O Electrical System Panel, P6-2

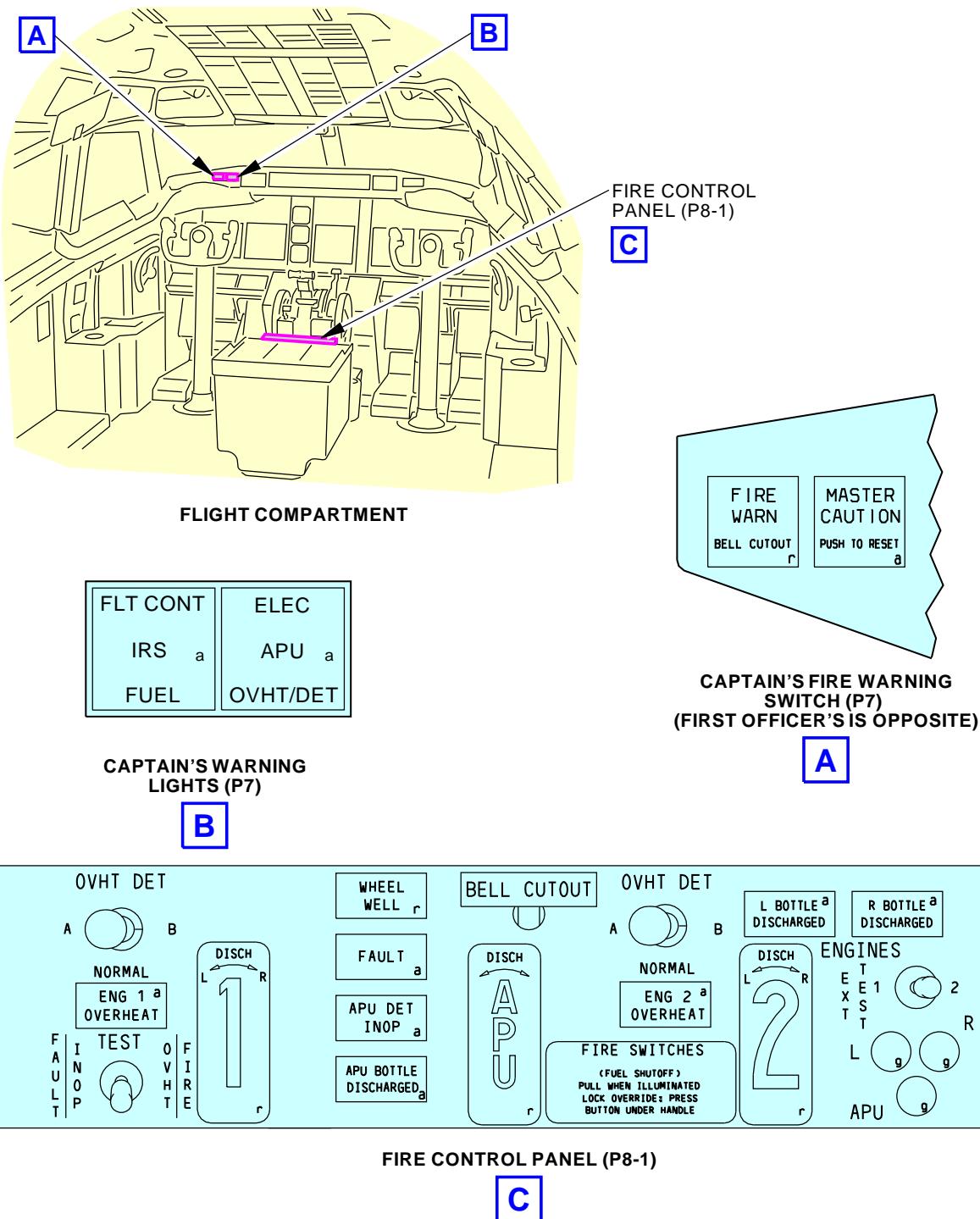
Row Col Number Name

A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
---	----	--------	---------------------------------------

———— END OF TASK ————

EFFECTIVITY
AKS ALL

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Auxiliary Power Unit (APU) Fire Detection Operational Test
Figure 501/26-15-00-990-801 (Sheet 1 of 2)

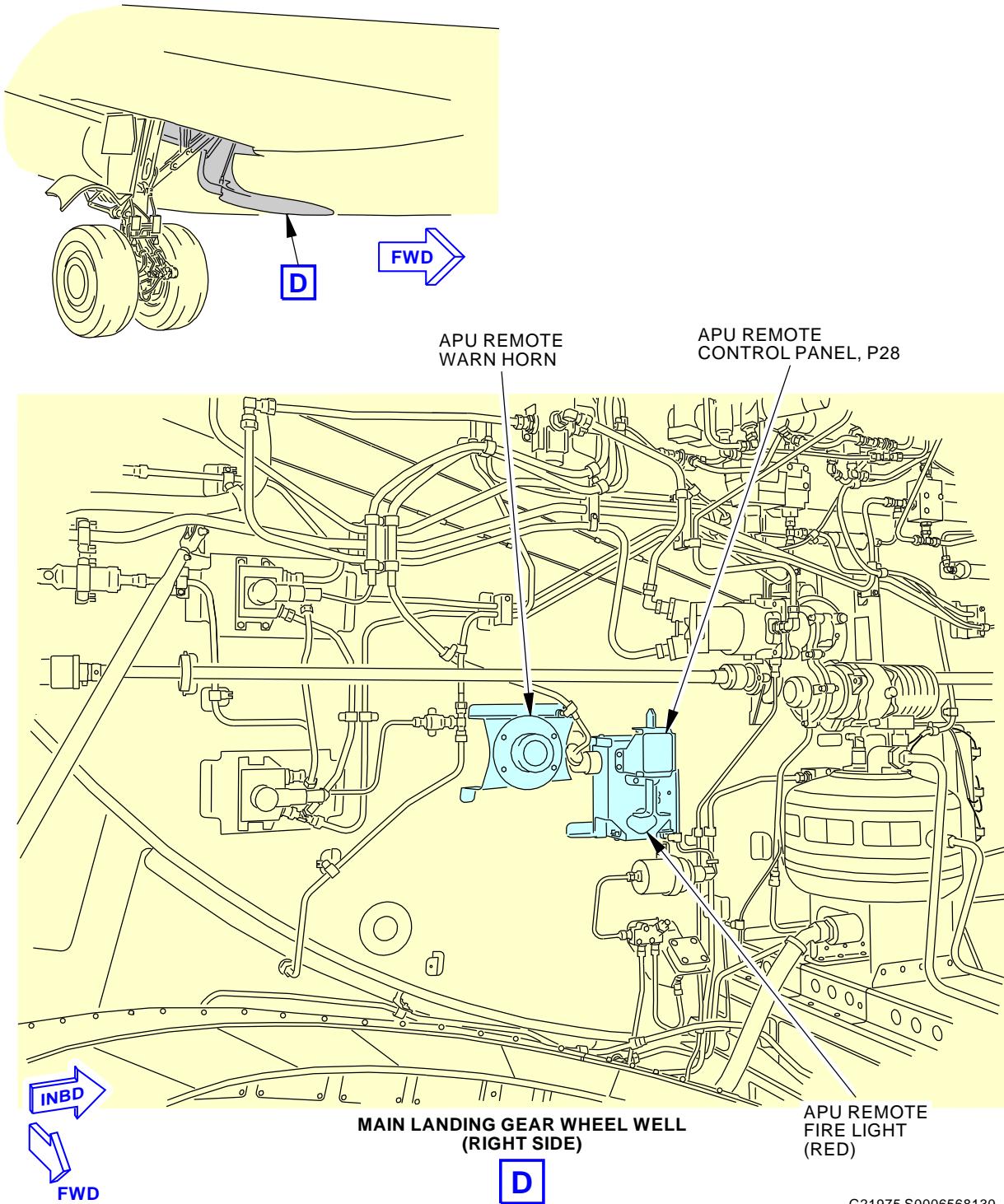
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G21975 S0006568130_V2

Auxiliary Power Unit (APU) Fire Detection Operational Test
Figure 501/26-15-00-990-801 (Sheet 2 of 2)

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TASK 26-15-00-730-801

3. APU Fire Detection Loop Resistance - System Test

(Figure 502)

A. General

- (1) The Loop Resistance Test does a check of the APU Fire Detection Loop Circuit. It disturbs the engine fire detection system by removing the Engine and APU Fire Detection Control Module, M279 and it requires some additional test equipment.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
26-10-01-000-801	Engine and APU Fire Detection Module Removal (P/B 401)
26-10-01-400-801	Engine and APU Fire Detection Module Installation (P/B 401)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Prepare for the Loop Resistance Test

SUBTASK 26-15-00-860-005

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.



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SUBTASK 26-15-00-860-006

- (2) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-15-00-010-001

- (3) Get access to the Electronic Equipment Bay, do this task.

Open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

G. APU Fire Detection Loop Resistance Test

SUBTASK 26-15-00-020-001

- (1) Do this task: Engine and APU Fire Detection Module Removal, TASK 26-10-01-000-801.

SUBTASK 26-15-00-730-001

- (2) Use a digital/analog multimeter, COM-1793 to measure the resistance across pin 25 of connector D1000 and airplane ground.

(a) Make sure the resistance is 1009 ± 45 ohms.

SUBTASK 26-15-00-420-001

- (3) Do this task: Engine and APU Fire Detection Module Installation, TASK 26-10-01-400-801.

SUBTASK 26-15-00-860-007

- (4) Close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

SUBTASK 26-15-00-710-007

- (5) Make sure the APU FAULT AREA light on the Engine and APU Fire Detection Control Module, P279, is not on.

SUBTASK 26-15-00-710-008

- (6) Make sure the APU DET INOP light on the Engine and APU Fire Control Panel, P8-1, is not on.

SUBTASK 26-15-00-710-009

- (7) Push the Captain's or First Officer's MASTER CAUTION light, on the Pilot's Glareshield, P7.

SUBTASK 26-15-00-710-010

- (8) Make sure the Captain's and First Officer's MASTER CAUTION light, on the Pilot's Glareshield is not on.

SUBTASK 26-15-00-710-011

- (9) Make sure the OVHT/DET light, on the Pilot's Glareshield is not on.



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H. Put the Airplane Back to its Usual Condition

SUBTASK 26-15-00-410-001

- (1) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

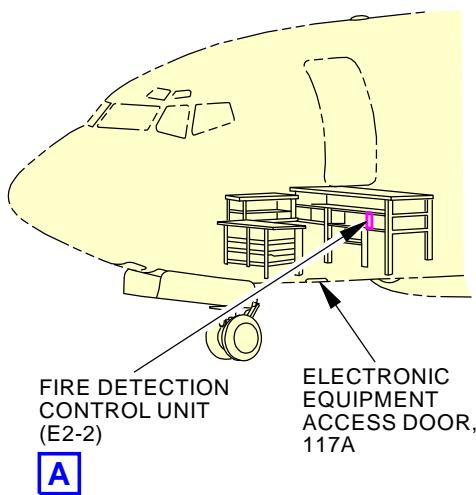
———— END OF TASK ————

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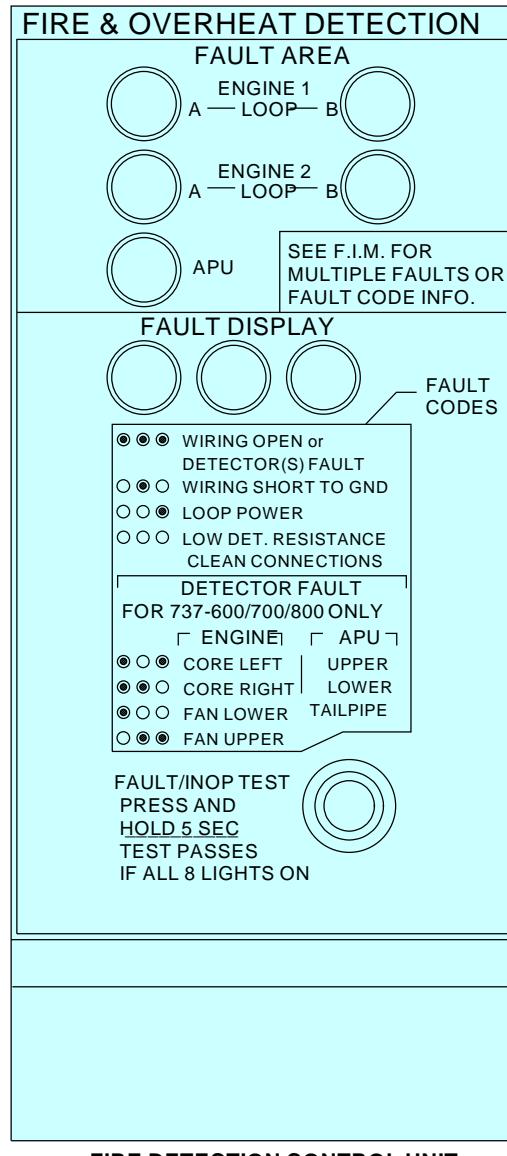
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A



FIRE DETECTION CONTROL UNIT

A

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Auxiliary Power Unit (APU) Fire Detection Resistance Test
Figure 502/26-15-00-990-802

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TASK 26-15-00-730-802

4. APU Fire Detection Circuit - System Test

(Figure 501, Figure 503)

A. General

- (1) The Circuit Test does a check of the entire APU Fire Detection System. It does not disturb the APU fire detection system but it does require additional test equipment.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
49-11-00-860-802	APU Usual Shutdown (P/B 201)
49-61-12-000-801	Electronic Control Unit Removal (P/B 401)
49-61-12-400-801	Electronic Control Unit Installation (P/B 401)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536
SPL-1655	Equipment - Test, APU/Engine Fire Detection System Part #: C26005-1 Supplier: 81205

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right
315	APU Compartment - Left
316	APU Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door



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(Continued)

<u>Number</u>	<u>Name/Location</u>
315A	APU Cowl Door

F. Prepare for the Circuit Test

SUBTASK 26-15-00-860-008

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 26-15-00-860-009

- (2) Do this task to make sure the APU is not running: APU Usual Shutdown, TASK 49-11-00-860-802.

SUBTASK 26-15-00-860-017

- (3) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-15-00-010-002

- (4) Open these access panels:

Number Name/Location

117A	Electronic Equipment Access Door
315A	APU Cowl Door

SUBTASK 26-15-00-480-001

- (5) Connect the test box equipment, SPL-1655, to the terminal lug of the APU LOWER Fire Detector, M1756, and airplane ground.
- Make sure all the toggle switches on the test box are in the NORMAL positions.
 - Connect one alligator clip to the responder bracket or to a grounding lug.
 - Connect the other alligator clip to the responder lug.

G. Do a Test of the Fault Indication Circuit

SUBTASK 26-15-00-730-002

- (1) On the test box, move the APU LOOP GND FAULT switch to the GND FAULT position.
- Make sure the APU DET INOP light on the Fire Control Panel, P8-1, comes on.
 - On the Engine and APU Fire Detection Control Module, M279, make sure these conditions occur:
 - The APU LOOP FAULT AREA light comes on.
 - The three FAULT CODE lights are OFF-ON-OFF.

SUBTASK 26-15-00-730-003

- (2) On the test box, move the APU LOOP GND FAULT switches to the NORMAL position.
- Make sure the APU DET INOP light on the Fire Control Panel, P8-1, goes off.
 - On the Engine and APU Fire Detection Control Module, M279, make sure these conditions occur:

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- 1) The APU LOOP FAULT AREA light goes off.
- 2) The three FAULT CODE lights are OFF-OFF-OFF.

H. Do a Test of the Fire Indication Circuit

SUBTASK 26-15-00-860-011

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-15-00-020-002

- (2) Do this task: Electronic Control Unit Removal, TASK 49-61-12-000-801 (Figure 504).

SUBTASK 26-15-00-730-004

- (3) On the test box, move the APU LOOP FIRE switches to the FIRE position.
 - (a) Make sure the "APU" Fire Switch light, on the Fire Control Panel, P8-1, comes on.
 - (b) On the Pilot's Glareshield, P7, make sure these conditions occur:
 - 1) The Captain and First Officer's FIRE WARN lights comes on.
 - (c) Make sure the flight compartment fire bell, on the Warning Module, M315, comes on.
 - (d) In the right main wheel well, make sure these conditions occur:
 - 1) The APU remote fire light (red), on the P28 panel, flashes on and off continuously.
 - 2) The APU fire warning horn comes on.
 - (e) Use a digital/analog multimeter, COM-1793, to measure the voltage across pin B2 of connector D3599B and airplane ground.

NOTE: Connector D3599B is where the APU Electronic Control Unit M1709 was installed.

- 1) Make sure the voltage is at least 22 VDC.

SUBTASK 26-15-00-730-005

- (4) On the test box, move the APU LOOP FIRE switches to the NORMAL position.
 - (a) Make sure the "APU" Fire Switch light, on the Engine and APU Fire Control Panel, P8-1, goes off.
 - (b) On the Pilot's Glareshield, P7, make sure these conditions occur:
 - 1) The Captain and First Officer's FIRE WARN lights goes off.
 - (c) Make sure the flight compartment fire bell, on the Warning Module, M315, stops.
 - (d) Make sure the APU remote fire light (red), on the P28 panel in the right main wheel well, goes off.
 - (e) In the right main wheel well, make sure these conditions occur:
 - 1) The APU remote fire light (red), on the P28 panel, goes off.
 - 2) The APU fire warning horn stops.
 - (f) Use a digital/analog multimeter, COM-1793, to measure the voltage across pin B2 of connector D3599B and airplane ground.

NOTE: Connector D3599B is where the APU Electronic Control Unit M1709 was installed.

- 1) Make sure the voltage is 0 ± 2 VDC.

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SUBTASK 26-15-00-480-002

- (5) Disconnect the equipment, SPL-1655, from the terminal lug of the APU LOWER Fire Detector, M1756, and airplane ground.

I. Put the Airplane Back to its Usual Condition

SUBTASK 26-15-00-420-002

- (1) Do this task: Electronic Control Unit Installation, TASK 49-61-12-400-801.

SUBTASK 26-15-00-860-012

- (2) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-15-00-410-002

- (3) Close these access panels:

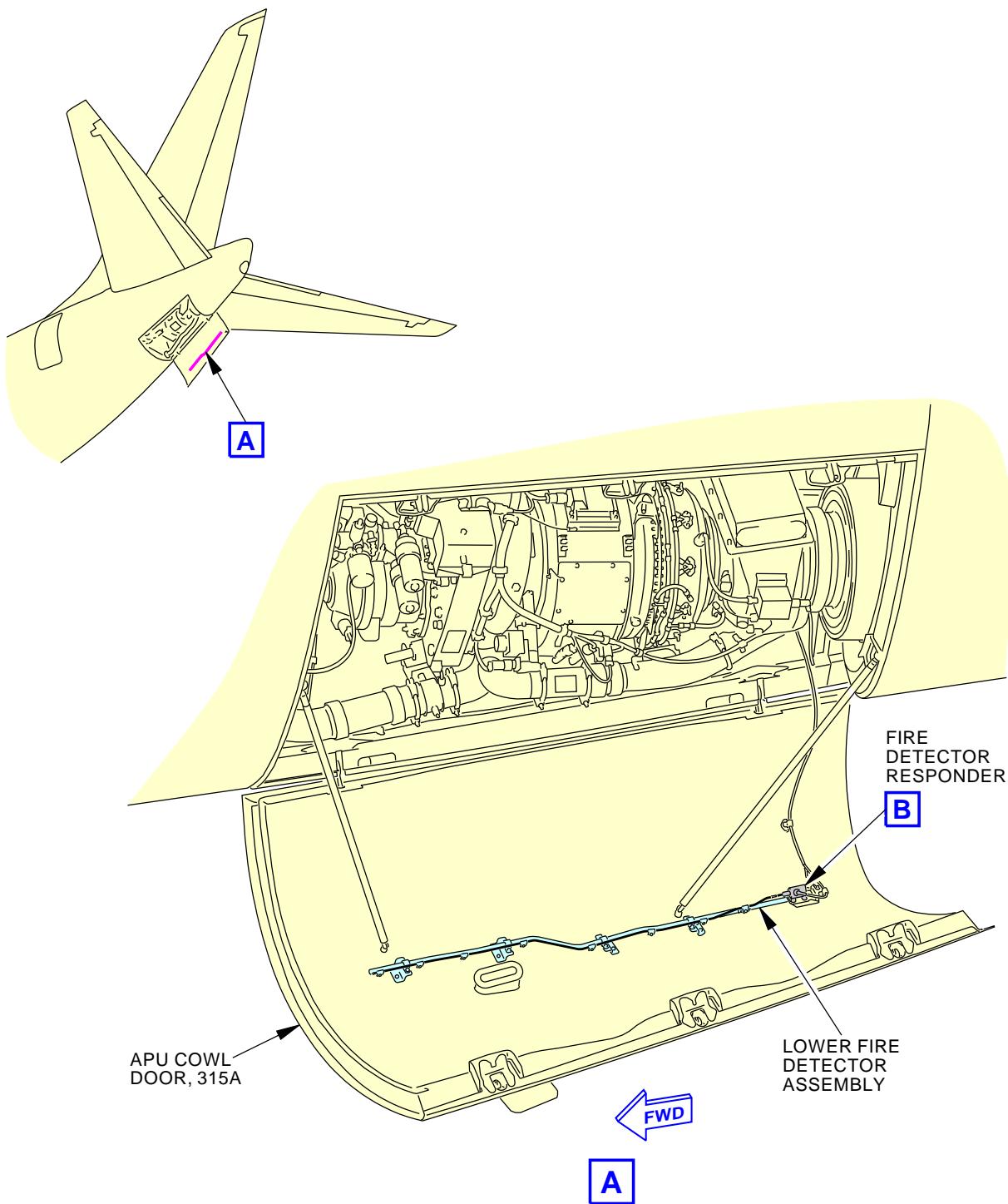
Number Name/Location

117A	Electronic Equipment Access Door
315A	APU Cowl Door

———— END OF TASK ————



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Auxiliary Power Unit (APU) Fire Detection Circuit Test
Figure 503/26-15-00-990-803 (Sheet 1 of 2)

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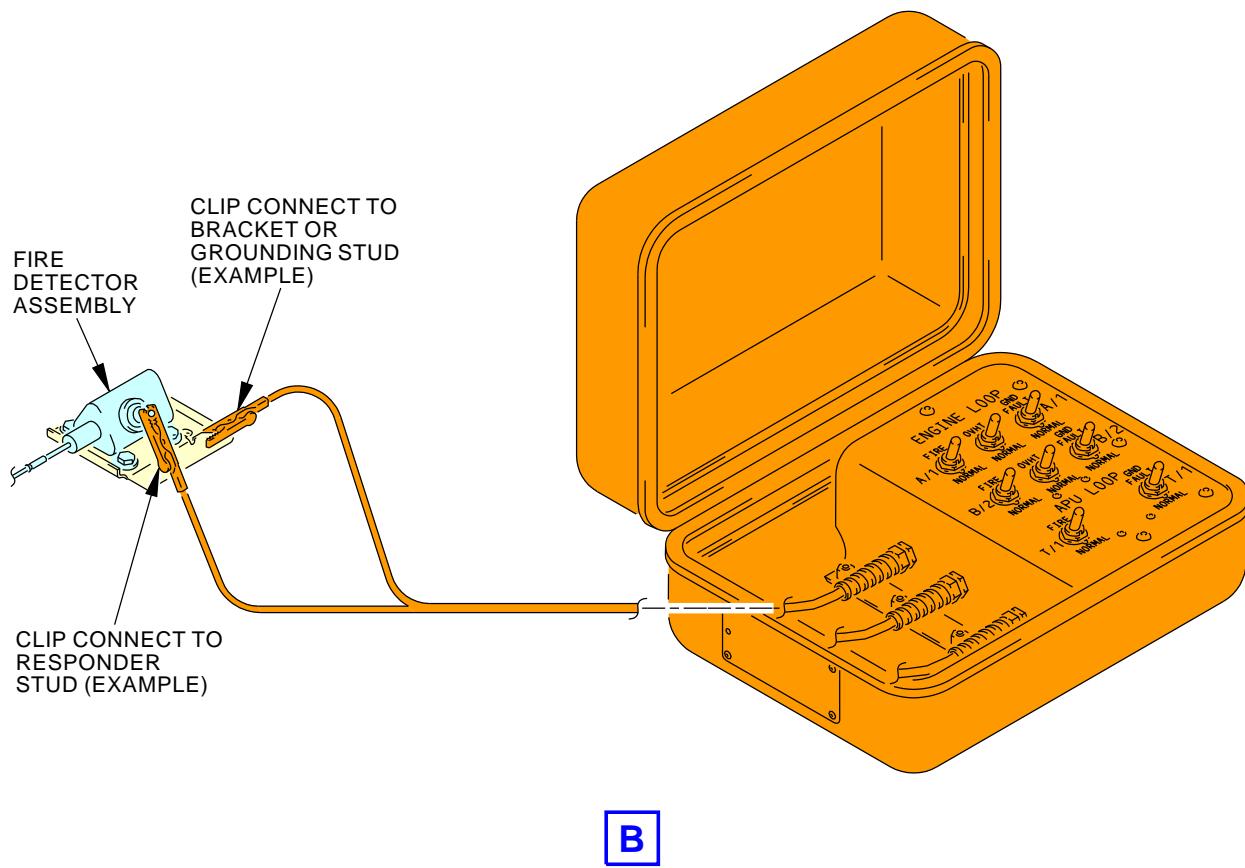
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Auxiliary Power Unit (APU) Fire Detection Circuit Test
Figure 503/26-15-00-990-803 (Sheet 2 of 2)

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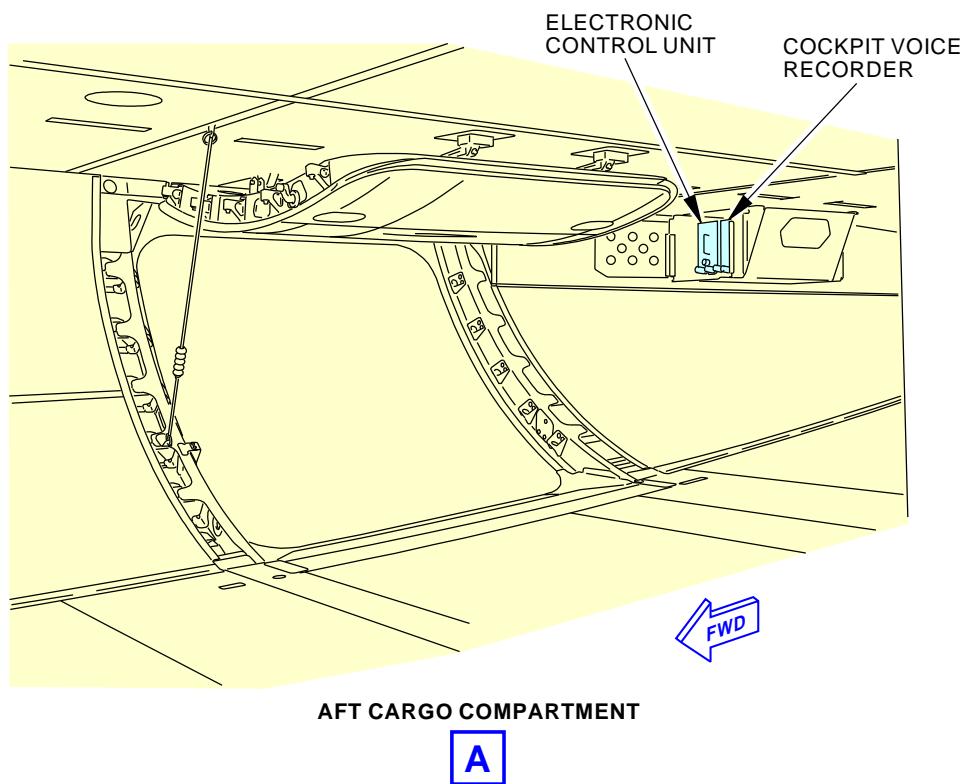
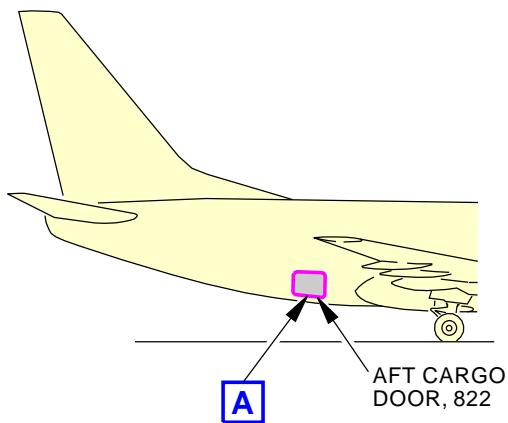
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Electronic Control Unit Test
Figure 504/26-15-00-990-804

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APU OVERHEAT DETECTORS - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Removal of the APU overheat detector elements.
 - (2) Installation of the APU overheat detector elements.
 - (3) Removal of the APU overheat detector assemblies.
 - (4) Installation of the APU overheat detector assemblies.
- B. There are three overheat detectors in the APU compartment. One overheat detector is installed on the APU door. The second is installed on the upper firewall panel in the APU compartment. The third detector is installed above the APU exhaust duct. The overheat detectors are single loop detectors.

TASK 26-15-01-000-801

2. APU Overheat Detector Element Removal

(Figure 401)

A. General

- (1) This task gives instructions to remove the APU Overheat Detector Element.

B. Location Zones

Zone	Area
212	Flight Compartment - Right
315	APU Compartment - Left
316	APU Compartment - Right
317	Tail Cone Compartment - Left
318	Tail Cone Compartment - Right

C. Access Panels

Number	Name/Location
315A	APU Cowl Door
318BR	Tailcone Access Door

D. Prepare for the Removal

SUBTASK 26-15-01-840-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	23	C00403	FIRE PROTECTION DETECTION APU
B	19	C01344	APU FIRE SW POWER

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-15-01-010-025

- (2) To access the upper or lower APU detector, open this access panel:

Number Name/Location

315A APU Cowl Door

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SUBTASK 26-15-01-010-026

- (3) To access the APU tailpipe overheat detector, open this access panel:

Number Name/Location

318BR Tailcone Access Door

E. APU Overheat Detector Element Removal

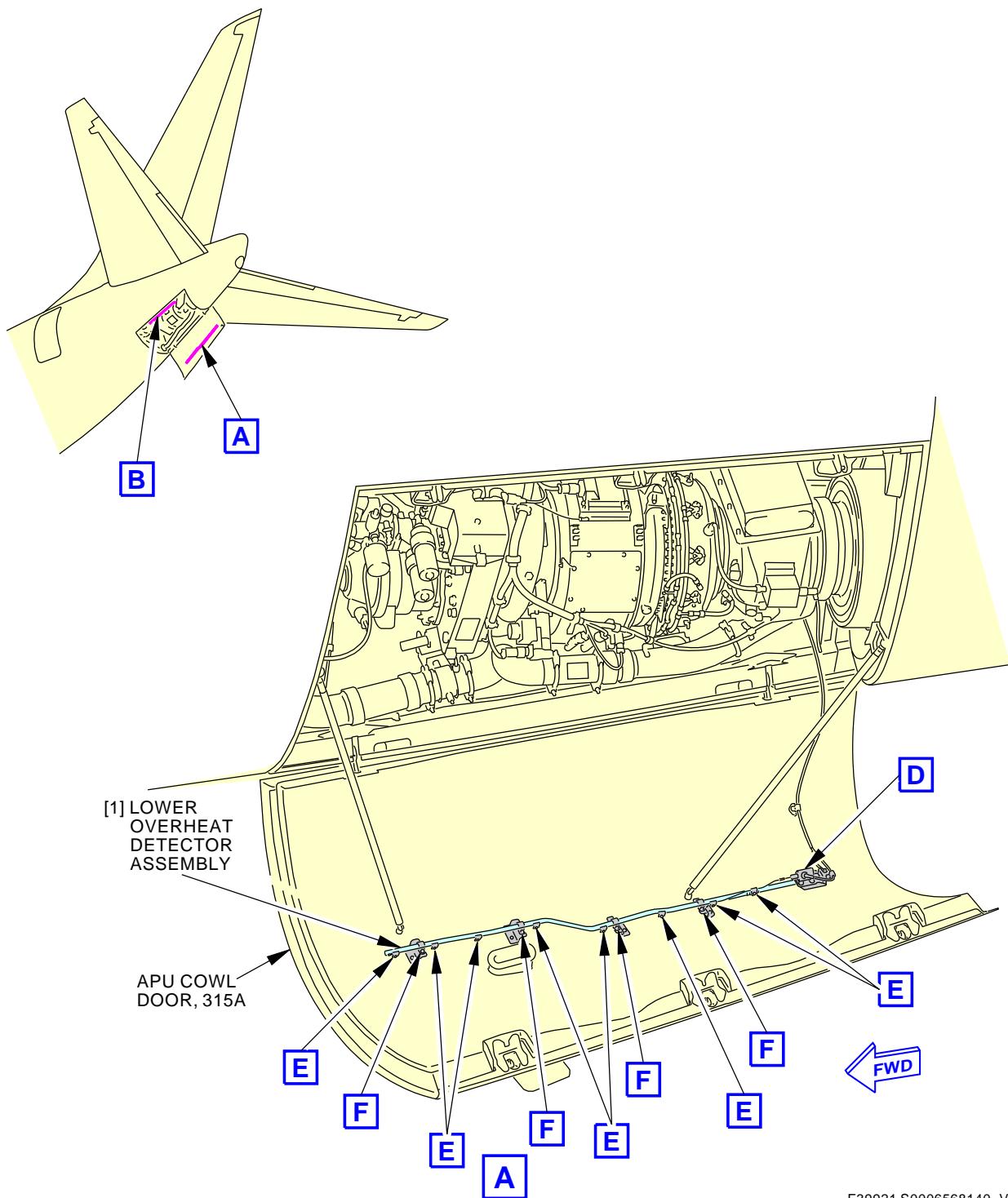
SUBTASK 26-15-01-000-001

- (1) Do these steps to remove the detector element [7] from the detector housing.
- (a) Loosen the screw [10] on each clamp [9].
 - (b) Remove the nut [5] and washer [4] from the terminal lug.
 - (c) Disconnect the lead from the terminal lug.
 - (d) Remove the four bolts [2] from the overheat detector housing.
 - (e) Remove the element [7] from the clamp [9].
 - (f) Remove the grommets [8] from the element [7] to use on the new element.
 - (g) Remove the element [7].

———— END OF TASK ————

EFFECTIVITY
AKS ALL

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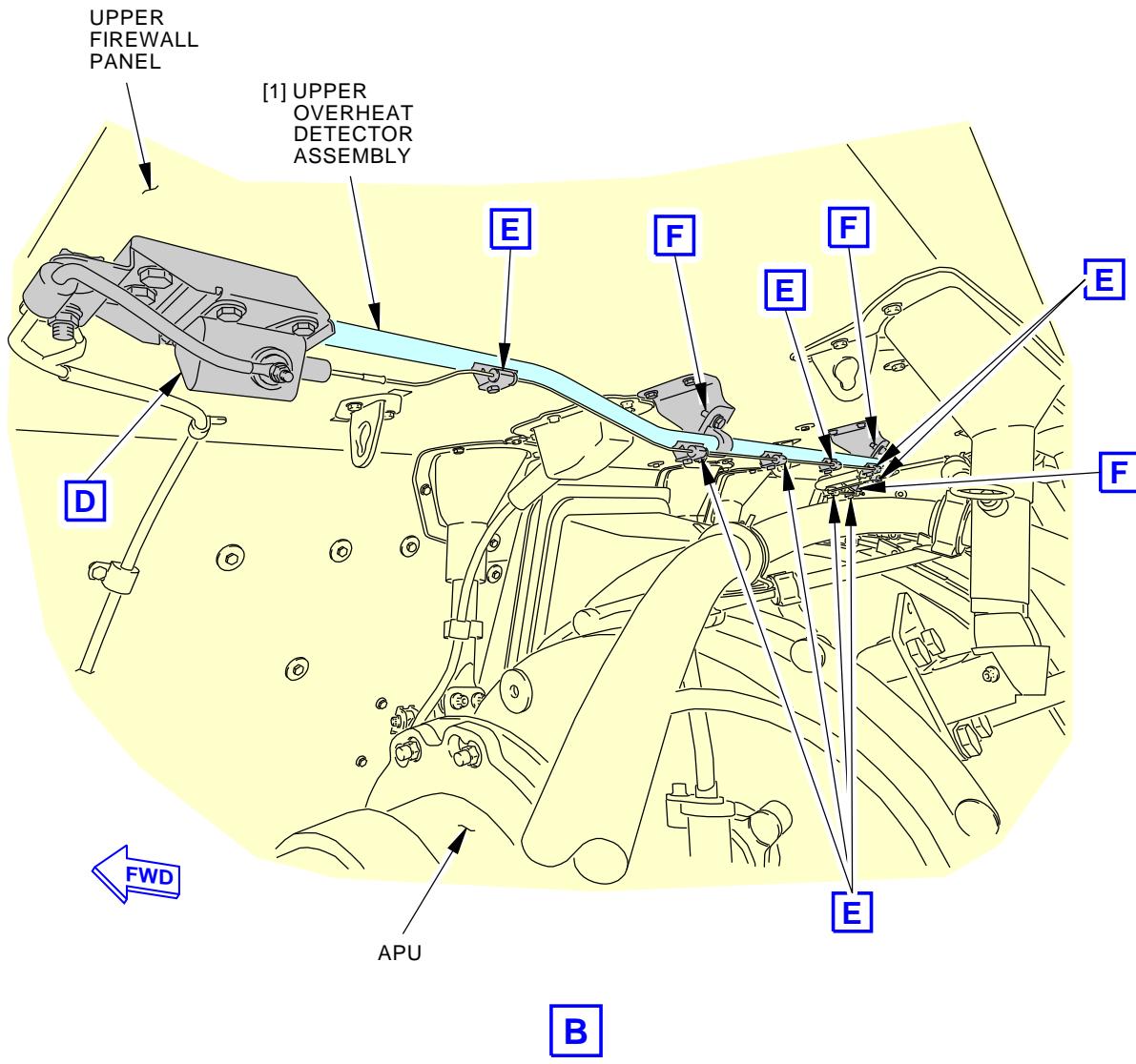
Auxiliary Power Unit (APU) Overheat Detector Installation
Figure 401/26-15-01-990-801 (Sheet 1 of 4)

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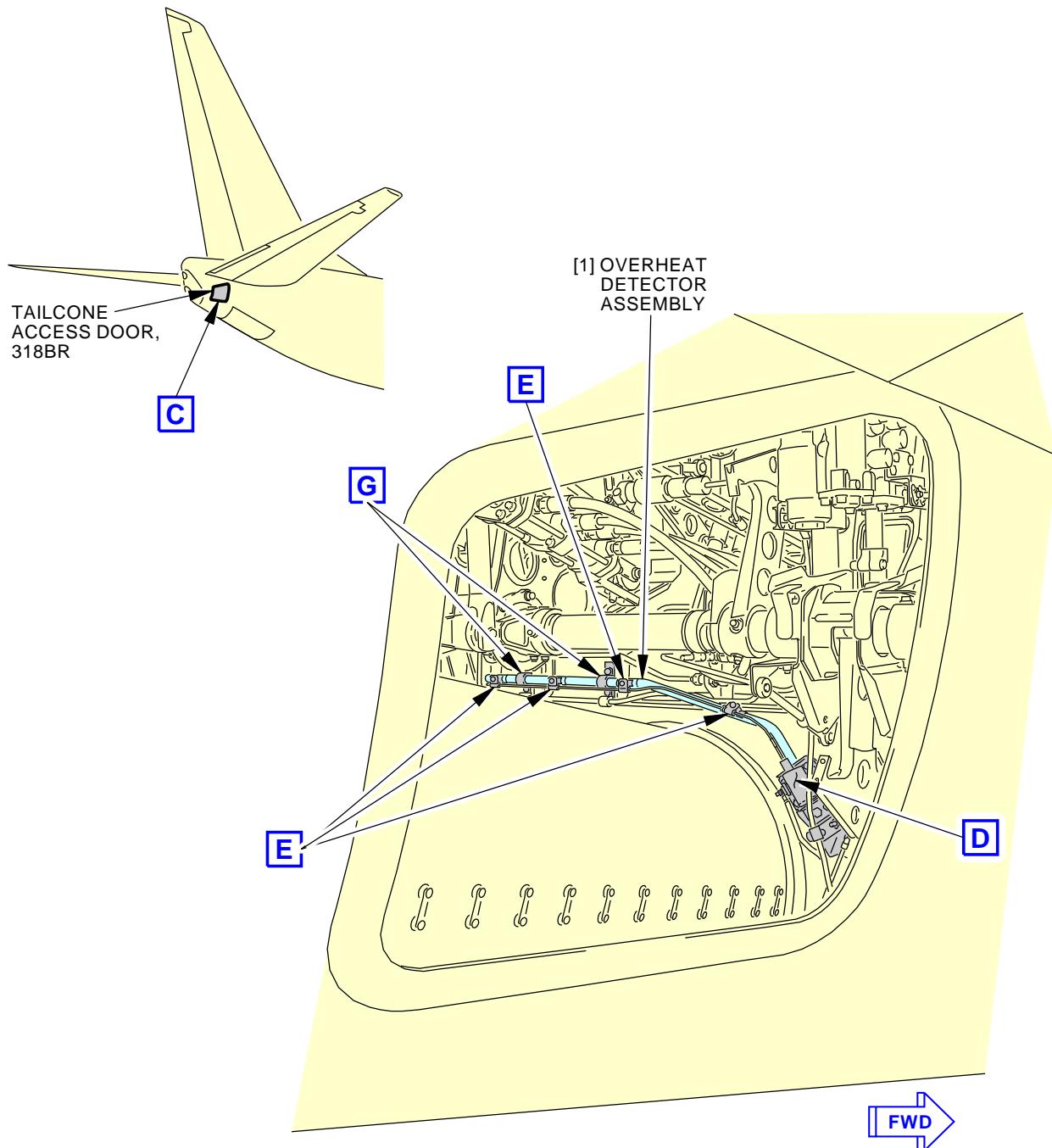
Auxiliary Power Unit (APU) Overheat Detector Installation
Figure 401/26-15-01-990-801 (Sheet 2 of 4)

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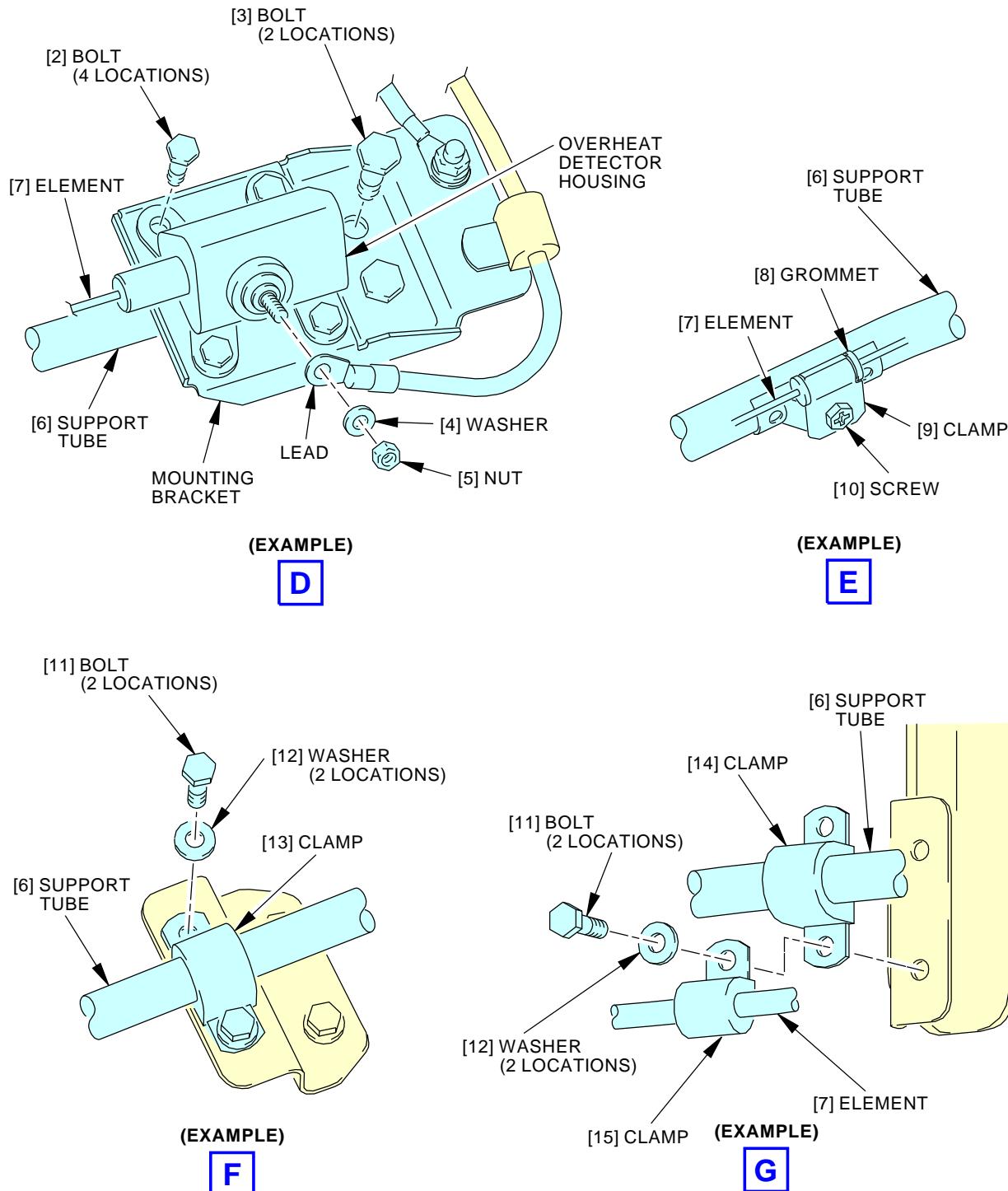
VIEW THROUGH THE TAILCONE ACCESS DOOR, 318BR

C

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Auxiliary Power Unit (APU) Overheat Detector Installation
Figure 401/26-15-01-990-801 (Sheet 3 of 4)EFFECTIVITY
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**Auxiliary Power Unit (APU) Overheat Detector Installation
Figure 401/26-15-01-990-801 (Sheet 4 of 4)**

EFFECTIVITY
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26-15-01



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TASK 26-15-01-400-801

3. APU Overheat Detector Element Installation

(Figure 401)

A. General

- (1) This task gives instructions to install the APU Overheat Detector Element.

B. References

Reference	Title
26-15-00-710-801	APU Fire Detection - Operational Test (P/B 501)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meters - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

D. Consumable Materials

Reference	Description	Specification
B00083	Solvent - VM&P Naphthas	ASTM D-3735 Type III
D00004	Compound - Antiseize, Graphite-Petrolatum	SAE AMS 2518

E. Location Zones

Zone	Area
212	Flight Compartment - Right
315	APU Compartment - Left
316	APU Compartment - Right
317	Tail Cone Compartment - Left
318	Tail Cone Compartment - Right

F. Access Panels

Number	Name/Location
315A	APU Cowl Door
318BR	Tailcone Access Door

G. Prepare for the Installation

SUBTASK 26-15-01-840-002

- (1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	23	C00403	FIRE PROTECTION DETECTION APU
B	19	C01344	APU FIRE SW POWER



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F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-15-01-010-027

- (2) To access the upper or lower APU detector, open this access panel:

<u>Number</u>	<u>Name/Location</u>
315A	APU Cowl Door

SUBTASK 26-15-01-010-028

- (3) To access the APU tailpipe overheat detector, open this access panel:

<u>Number</u>	<u>Name/Location</u>
318BR	Tailcone Access Door

H. APU Overheat Detector Element Installation

SUBTASK 26-15-01-420-001

- (1) Do these steps to install an overheat detector element [7]:
- Make sure the detector housing and mounting bracket are clean.
 - Putn the overheat detector element [7] in position along the support tube [6].
 - Put the overheat detector housing in the correct position on the mounting bracket.
 - Install the bolts [2] that attach the overheat detector housing to the mounting bracket.
 - Tighten the bolts to 40.0 in-lb (4.5 N·m) to 50.0 in-lb (5.6 N·m).
 - Install the grommets [8] on the detector element [7] at each clamp [9] location.
 - Install the element [7] in the clamp [9].
 - Make sure the end of the detector element [7] ends less than 1 in. (25 mm) past the last grommet [8].
 - If the detector element [7] extends more than 1 in. (25 mm), adjust the length of the element between each clamp [9] so that any slack is evenly distributed.
 - Make sure there is at least 0.12 in. (3.0 mm) between the overheat detector element [7] and the support tube [6].

CAUTION: FOR FINAL ASSEMBLY, LUBRICATED SCREWS MUST BE USED. IF SCREWS ARE REUSED, OR IF NON-LUBRICATED SCREWS ARE USED, THEY MAY SEIZE DUE TO HIGH TEMPERATURES. THE THREADS ON THESE SCREWS MUST BE COATED WITH COMPOUND, D00004 PRIOR TO INSTALLATION.

- Apply compound, D00004, to the screw [10] threads.
- Tighten the screw [10] on each clamp [9] until 1-1/2 to 3 threads extend through the nut.
 - Make sure the grommets [8] and clamp [9] are tight.
 - Make sure the ends of the screws [10] do not touch the support tube [6].
- Apply compound, D00004, to the threads of the terminal lug.
- Put the lead in position on the terminal lug, and attach with a washer [4] and nut [5].
- Tighten the nut to 32.0 in-lb (3.6 N·m) to 38.0 in-lb (4.3 N·m).

SUBTASK 26-15-01-280-001

- (2) Do a check of the resistance between the element stud and the airplane structure.

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- (a) Use an intrinsically safe approved bonding meter, COM-1550, or equivalent which can measure 0.0001 ohm (0.1 milliohm).
- (b) Make sure the resistance is less than 0.0025 ohm (2.5 milliohms).
- (c) If the resistance is more than 0.0025 ohm (2.5 milliohms), clean the bonding surfaces with the solvent, B00083, and do the check again.

I. APU Overheat Detector Assembly Installation Test

SUBTASK 26-15-01-840-003

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	23	C00403	FIRE PROTECTION DETECTION APU
B	19	C01344	APU FIRE SW POWER

F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-15-01-710-001

- (2) Do this task: APU Fire Detection - Operational Test, TASK 26-15-00-710-801.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 26-15-01-010-007

- (1) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
318BR	Tailcone Access Door

SUBTASK 26-15-01-010-009

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
315A	APU Cowl Door

———— END OF TASK ————

TASK 26-15-01-000-802

4. APU Overheat Detector Assembly Removal

(Figure 401)

A. General

- (1) This task gives instructions to remove the APU Overheat Detector Assembly.

B. Location Zones

<u>Zone</u>	<u>Area</u>
212	Flight Compartment - Right
315	APU Compartment - Left
316	APU Compartment - Right
317	Tail Cone Compartment - Left
318	Tail Cone Compartment - Right

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C. Access Panels

<u>Number</u>	<u>Name/Location</u>
315A	APU Cowl Door
318BR	Tailcone Access Door

D. Prepare for the Removal

SUBTASK 26-15-01-840-004

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	23	C00403	FIRE PROTECTION DETECTION APU
B	19	C01344	APU FIRE SW POWER

F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-15-01-010-029

- (2) To access the upper or lower APU detector, open this access panel:

<u>Number</u>	<u>Name/Location</u>
315A	APU Cowl Door

SUBTASK 26-15-01-010-030

- (3) To access the APU tailpipe overheat detector, open this access panel:

<u>Number</u>	<u>Name/Location</u>
318BR	Tailcone Access Door

E. APU Overheat Detector Assembly Removal

SUBTASK 26-15-01-000-002

- (1) Do these steps to remove the detector assembly [1] from the APU compartment.
 - (a) Remove the nut [5] and washer [4] from the terminal lug.
 - (b) Disconnect the lead from the terminal lug.
 - (c) Remove the bolts [3] from the overheat detector housing.

AKS ALL; AIRPLANES WITH UPPER AND LOWER OVERHEAT DETECTORS

- (d) Remove the bolts [11] and washers [12] that attach each clamp [13] to the APU compartment.
 - 1) Remove the clamp [13] from the support tube [6].

AKS ALL; AIRPLANES WITH TAILPIPE OVERHEAT DETECTOR

- (e) Remove the bolts [11] and washer [12] that attach each clamp [15] and clamp [14] to the APU compartment.

AKS ALL

- (f) Remove the detector assembly [1] from the APU compartment.

———— END OF TASK ————



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TASK 26-15-01-400-802

5. APU Overheat Detector Assembly Installation

(Figure 401)

A. General

- (1) This task gives instructions to install the APU Overheat Detector Assembly.

B. References

Reference	Title
26-15-00-710-801	APU Fire Detection - Operational Test (P/B 501)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meters - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

D. Consumable Materials

Reference	Description	Specification
B00083	Solvent - VM&P Naphthas	ASTM D-3735 Type III

E. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
315	APU Compartment - Left
316	APU Compartment - Right
317	Tail Cone Compartment - Left
318	Tail Cone Compartment - Right

F. Access Panels

Number	Name/Location
315A	APU Cowl Door
318BR	Tailcone Access Door

G. Prepare for Installation

SUBTASK 26-15-01-840-005

- (1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	23	C00403	FIRE PROTECTION DETECTION APU
B	19	C01344	APU FIRE SW POWER



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F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-15-01-010-031

- (2) To access the upper or lower APU detector, open this access panel:

<u>Number</u>	<u>Name/Location</u>
315A	APU Cowl Door

SUBTASK 26-15-01-010-032

- (3) To access the APU tailpipe overheat detector, open this access panel:

<u>Number</u>	<u>Name/Location</u>
318BR	Tailcone Access Door

H. APU Overheat Detector Assembly Installation

SUBTASK 26-15-01-420-002

- (1) Do these steps to install a overheat detector assembly [1]:

AKS ALL; AIRPLANES WITH UPPER AND LOWER OVERHEAT DETECTORS

- (a) Put the detector assembly in position in the APU compartment, and install the clamps [13].
 - 1) Attach each clamp [13] with two bolts [11] and washers [12].
 - 2) Tighten the bolts [11] to 32.0 in-lb (3.6 N·m) to 38.0 in-lb (4.3 N·m).

AKS ALL; AIRPLANES WITH TAILPIPE OVERHEAT DETECTOR

- (b) Put the detector assembly in position in the APU compartment.
 - 1) Put the clamp [14] and clamp [15] in position and attach with the bolt [11] and washer [12].
 - 2) Tighten the bolts to 32.0 in-lb (3.6 N·m) to 38.0 in-lb (4.3 N·m).

AKS ALL

- (c) Install the two bolts [3] that attach the overheat detector housing to the APU compartment.
- (d) Tighten the bolts to 72.0 in-lb (8 N·m) to 88 in-lb (10 N·m).
- (e) Put the lead in position on the terminal lug, and attach with a washer [4] and nut [5].
- (f) Tighten the nut [5] to 32.0 in-lb (3.6 N·m) to 38.0 in-lb (4.3 N·m).

SUBTASK 26-15-01-280-002

- (2) Do a check of the resistance between the stud and the airplane structure.
 - (a) Use an intrinsically safe approved bonding meter, COM-1550, or equivalent, which can measure 0.0001 ohm (0.1 milliohm).
 - (b) Make sure the resistance is less than 0.0025 ohm (2.5 milliohms).
 - (c) If the resistance is more than 0.0025 ohm (2.5 milliohms), clean the bonding surfaces with the solvent, B00083, and do the check again.

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I. APU Overheat Detector Assembly Installation Test

SUBTASK 26-15-01-840-006

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	23	C00403	FIRE PROTECTION DETECTION APU
B	19	C01344	APU FIRE SW POWER

F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-15-01-710-002

- (2) Do this task: APU Fire Detection - Operational Test, TASK 26-15-00-710-801.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 26-15-01-010-016

- (1) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
315A	APU Cowl Door

SUBTASK 26-15-01-010-018

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
318BR	Tailcone Access Door

———— END OF TASK ————



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APU FIRE DETECTORS - INSPECTION/CHECK

1. **General**

- A. This procedure has this inspection task:
- (1) APU Fire Detectors.

TASK 26-15-01-210-801

2. **APU Fire Detectors Inspection**

A. **Location Zones**

Zone	Area
315	APU Compartment - Left
316	APU Compartment - Right
317	Tail Cone Compartment - Left
318	Tail Cone Compartment - Right

B. **Access Panels**

Number	Name/Location
315A	APU Cowl Door
318BR	Tailcone Access Door

C. **Procedure**

SUBTASK 26-15-01-010-019

- (1) To access the upper or lower APU detector, open this access panel:

Number	Name/Location
315A	APU Cowl Door

SUBTASK 26-15-01-010-021

- (2) To access the APU tailpipe overheating detector, open this access panel:

Number	Name/Location
318BR	Tailcone Access Door

SUBTASK 26-15-01-210-001

- (3) Do a general visual inspection of the APU fire detectors.

D. **Put the Airplane Back to Its Usual Condition**

SUBTASK 26-15-01-010-022

- (1) Close this access panel:

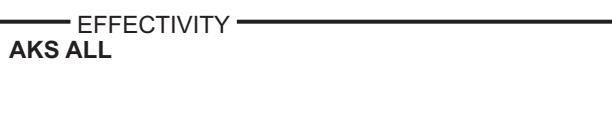
Number	Name/Location
318BR	Tailcone Access Door

SUBTASK 26-15-01-010-024

- (2) Close this access panel:

Number	Name/Location
315A	APU Cowl Door

———— END OF TASK ————



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APU FIRE WARNING HORN - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) APU Fire Warning Horn Removal
 - (2) APU Fire Warning Horn Installation.
- B. The APU Fire Warning Horn M277 is in the P28 APU Fire Control Panel.

TASK 26-15-02-000-801

2. APU Fire Warning Horn Removal

A. General

- (1) This task gives instructions to remove the APU Fire Warning Horn.

B. Location Zones

Zone	Area
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right

C. Prepare for the Removal

SUBTASK 26-15-02-010-005

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	23	C00403	FIRE PROTECTION DETECTION APU

D. APU Fire Warning Horn Removal

SUBTASK 26-15-02-020-001

- (1) Tag each electrical wire with its location.

SUBTASK 26-15-02-020-002

- (2) Loosen terminal lugs.

SUBTASK 26-15-02-020-003

- (3) Disconnect the electrical wires from the APU Fire Warning Horn.

SUBTASK 26-15-02-020-004

- (4) Remove four screws and four washers that connect the horn to the P28 panel.

SUBTASK 26-15-02-020-005

- (5) Remove APU Fire Warning Horn.

———— END OF TASK ————

TASK 26-15-02-400-801

3. APU Fire Warning Horn Installation

A. General

- (1) This task gives instructions to install the APU Fire Warning Horn.

B. References

Reference	Title
26-15-00-710-801	APU Fire Detection - Operational Test (P/B 501)

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C. Location Zones

<u>Zone</u>	<u>Area</u>
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right

D. Prepare for the Installation

SUBTASK 26-15-02-010-004

- (1) Make sure that this circuit breaker is open and has safety tag:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	23	C00403	FIRE PROTECTION DETECTION APU

E. APU Fire Warning Horn Installation

SUBTASK 26-15-02-010-003

- (1) Get access to the P28 panel.

SUBTASK 26-15-02-420-001

- (2) Put the APU fire warning horn in its position for installation.

SUBTASK 26-15-02-420-002

- (3) Install the four screws and four washers to horn.

SUBTASK 26-15-02-420-003

- (4) Connect the electrical terminals to the APU fire warning horn.

SUBTASK 26-15-02-020-006

- (5) Remove the wire tags.

SUBTASK 26-15-02-410-001

- (6) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	23	C00403	FIRE PROTECTION DETECTION APU

F. APU Fire Warning Horn Installation Test

SUBTASK 26-15-02-480-001

- (1) Do this task: APU Fire Detection - Operational Test, TASK 26-15-00-710-801.

———— END OF TASK ————



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CARGO BAY SMOKE DETECTION - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Cargo bay smoke detection - deactivation.
 - (2) Cargo bay smoke detection - activation.

TASK 26-16-00-040-801

2. Cargo Bay Smoke Detection - Deactivation

A. General

- (1) This task will deactivate the cargo bay smoke detection system.

B. Procedure

SUBTASK 26-16-00-020-001

- (1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

C. Cargo Bay Smoke Detection - Tryout

NOTE: This tryout is to make sure that the cargo bay smoke detection system is in a zero energy state.

SUBTASK 26-16-00-210-001

- (1) Push and hold the TEST switch on the Cargo Fire Control Panel.
 - (a) On the Cargo Fire Control Panel, make sure that none of these lights come on:
 - 1) The FWD CARGO SMOKE light.
 - 2) The AFT CARGO SMOKE light.
 - 3) The DETECTOR FAULT light.
 - (b) On the Pilot's Glareshield, P7, make sure that none of these lights come on:
 - 1) The Captain's and First Officer's FIRE WARN lights.
 - (c) Make sure the flight compartment fire bell does not come on.

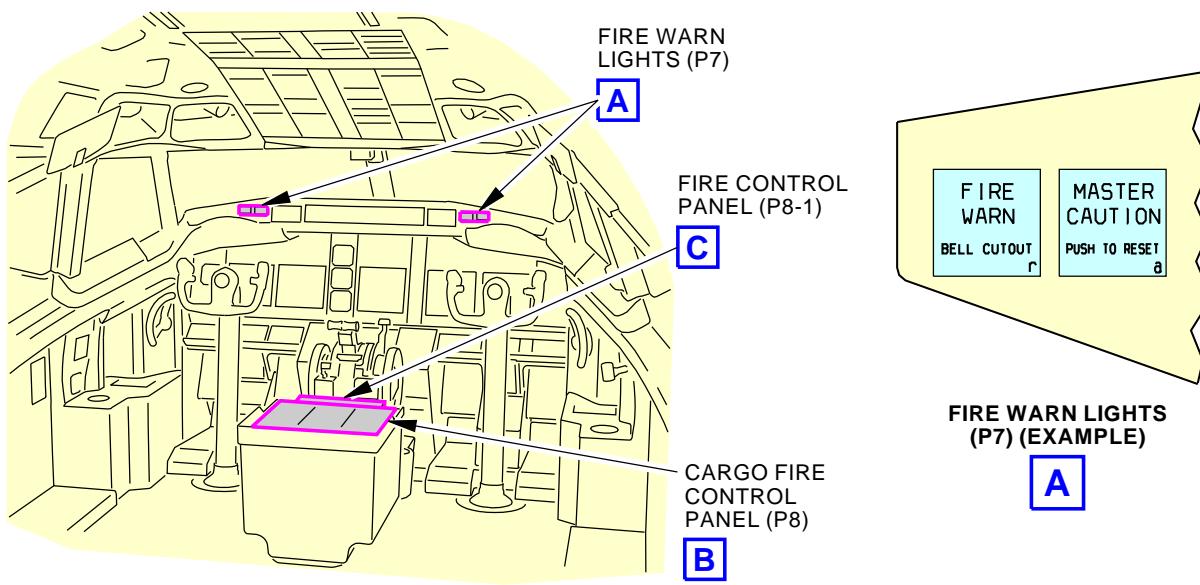
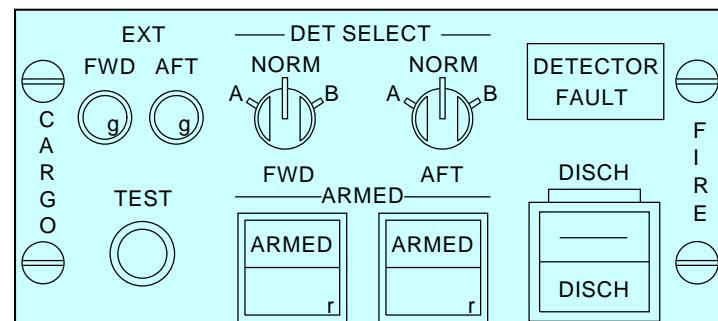
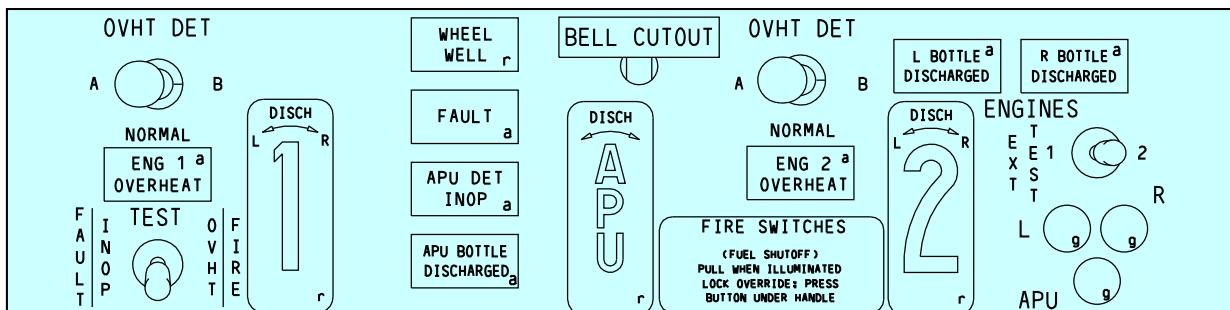
SUBTASK 26-16-00-210-002

- (2) Release the TEST switch.

———— END OF TASK ————



26-16-00


FLIGHT COMPARTMENT

CARGO FIRE CONTROL PANEL (P8)
B

FIRE CONTROL PANEL (P8-1)
C

H01807 S0006568153_V2

Cargo Bay Smoke Detection System
Figure 201/26-16-00-990-802

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TASK 26-16-00-440-801

3. Cargo Bay Smoke Detection - Activation

(Figure 201)

A. General

- (1) This task will activate the cargo bay smoke detection system.

B. Procedure

SUBTASK 26-16-00-420-001

- (1) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

———— END OF TASK ————

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CARGO BAY SMOKE DETECTION - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. Both cargo bays have smoke detectors installed in the ceiling. When the concentration of smoke at the sensor gets to a preset threshold, the smoke detector alarm occurs.
- C. This procedure consists of these tasks:
 - (1) Cargo Bay Smoke Detection - Operational Test.
 - (2) Cargo Bay Smoke Detection - Smoke Test.

TASK 26-16-00-710-801

2. Cargo Bay Smoke Detection - Operational Test

(Figure 501)

A. References

Reference	Title
24-22-00-860-813	Supply External Power (P/B 201)

B. Prepare for the Operational Test

SUBTASK 26-16-00-860-001

- (1) Do this task: Supply External Power, TASK 24-22-00-860-813.

SUBTASK 26-16-00-860-002

- (2) Close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

SUBTASK 26-16-00-860-017

- (3) Make sure FWD and AFT DET SELECT switches are set to NORM.

SUBTASK 26-16-00-710-001

- (4) Push and hold the TEST switch on the Cargo Fire Control Panel.

(a) On the Cargo Fire Control panel, look for these indications:

- 1) The FWD and AFT CARGO SMOKE light comes on.
- 2) The DETECTOR FAULT light is off.

(b) On the Pilot's Glareshield, P7, make sure these lights come on:

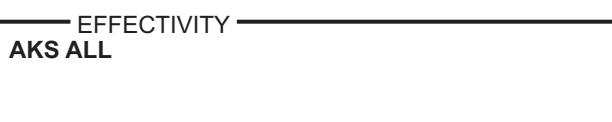
- 1) The Captain's and First Officer's FIRE WARN lights (Red).

(c) Make sure you can hear the flight compartment fire bell.

SUBTASK 26-16-00-710-003

- (5) Push the Captain's or First Officer's FIRE WARN switch.

NOTE: If you push the either of the FIRE WARN lights on the P7 panel, or the BELL CUTOUT switch on the Engine and APU Fire Control panel, the same conditions will occur. The FIRE WARN and BELL CUTOUT switches cause the same resets but from different locations.



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- (a) On the Pilot's Glareshield, P7, make sure these lights go off:
 - 1) The Captain's and First Officer's FIRE WARN lights (Red).
- (b) Make sure you can not hear the fire bell.

SUBTASK 26-16-00-860-018

- (6) Release the TEST switch.
 - (a) On the Cargo Bay Fire Control panel, look for this indication:
 - 1) The FWD and AFT CARGO SMOKE light goes off.

SUBTASK 26-16-00-860-019

- (7) Set the FWD and AFT DET SELECT switches to "A".

SUBTASK 26-16-00-860-020

- (8) Push and hold the TEST switch on the Cargo Fire Control Panel.
 - (a) On the Cargo Fire Control panel, look for these indications:
 - 1) The FWD and AFT CARGO SMOKE light comes on.
 - 2) The DETECTOR FAULT light is off.
 - (b) On the Pilot's Glareshield, P7, make sure these lights come on:
 - 1) The Captain's and First Officer's FIRE WARN lights (Red).
 - (c) Make sure you can hear the flight compartment fire bell.

SUBTASK 26-16-00-860-021

- (9) Push the Captain's or First Officer's FIRE WARN switch.

NOTE: If you push the either of the FIRE WARN lights on the P7 panel, or the BELL CUTOUT switch on the Engine and APU Fire Control panel, the same conditions will occur. The FIRE WARN and BELL CUTOUT switches cause the same resets but from different locations.

- (a) On the Pilot's Glareshield, P7, make sure these lights go off:
 - 1) The Captain's and First Officer's FIRE WARN lights (Red).
- (b) Make sure you can not hear the fire bell.

SUBTASK 26-16-00-860-022

- (10) Release the TEST switch.
 - (a) On the Cargo Bay Fire Control panel, look for this indication:
 - 1) The FWD and AFT CARGO SMOKE light goes off.

SUBTASK 26-16-00-860-023

- (11) Set the FWD and AFT DET SELECT switches to "B".

SUBTASK 26-16-00-710-004

- (12) Push and hold the TEST switch on the Cargo Fire Control Panel.
 - (a) On the Cargo Fire Control panel, look for these indications:
 - 1) The FWD and AFT CARGO SMOKE light comes on.
 - 2) The DETECTOR FAULT light is off.
 - (b) On the Pilot's Glareshield, P7, make sure these lights come on:
 - 1) The Captain's and First Officer's FIRE WARN lights (Red).
 - (c) Make sure you can hear the flight compartment fire bell.



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SUBTASK 26-16-00-730-001

- (13) Push the Captain's or First Officer's FIRE WARN switch.

NOTE: If you push the either of the FIRE WARN lights on the P7 panel, or the BELL CUTOUT switch on the Engine and APU Fire Control panel, the same conditions will occur. The FIRE WARN and BELL CUTOUT switches cause the same resets but from different locations.

- (a) On the Pilot's Glareshield, P7, make sure these lights go off:
 - 1) The Captain's and First Officer's FIRE WARN lights (Red).
- (b) Make sure you can not hear the fire bell.

SUBTASK 26-16-00-860-003

- (14) Release the TEST switch.

- (a) On the Cargo Bay Fire Control panel, look for this indication:
 - 1) The FWD and AFT CARGO SMOKE light goes off.

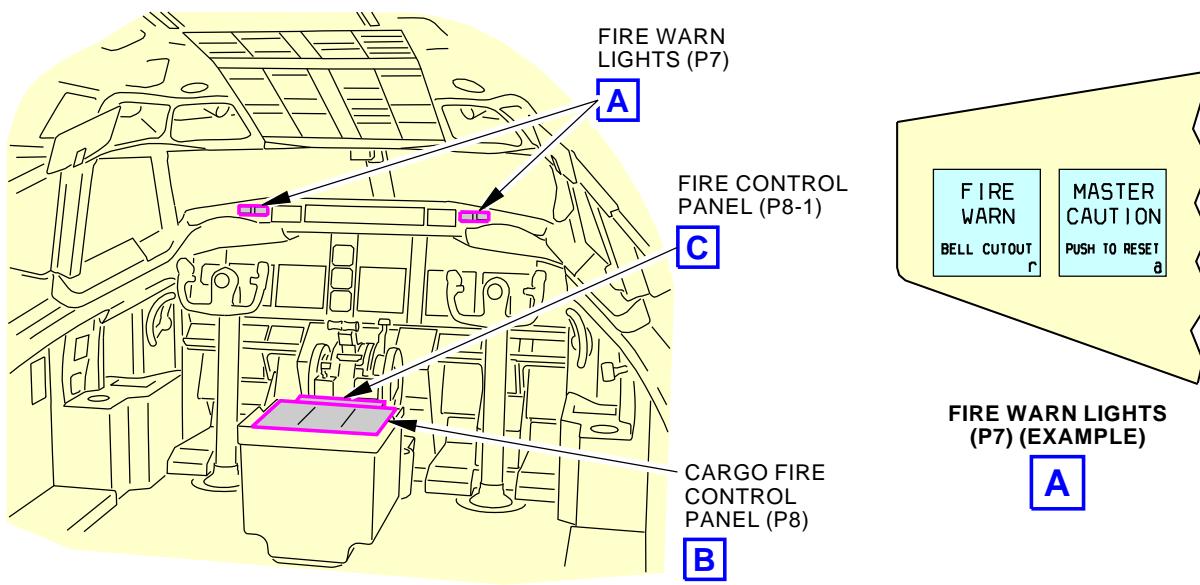
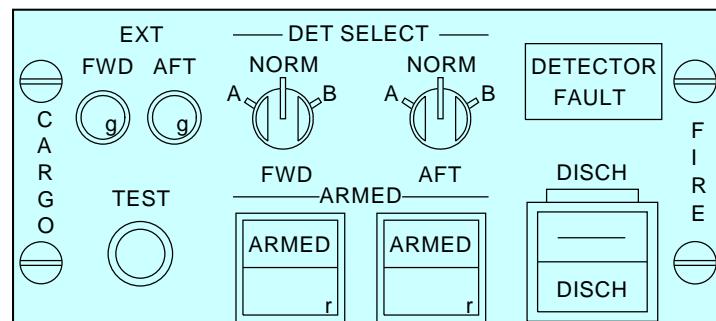
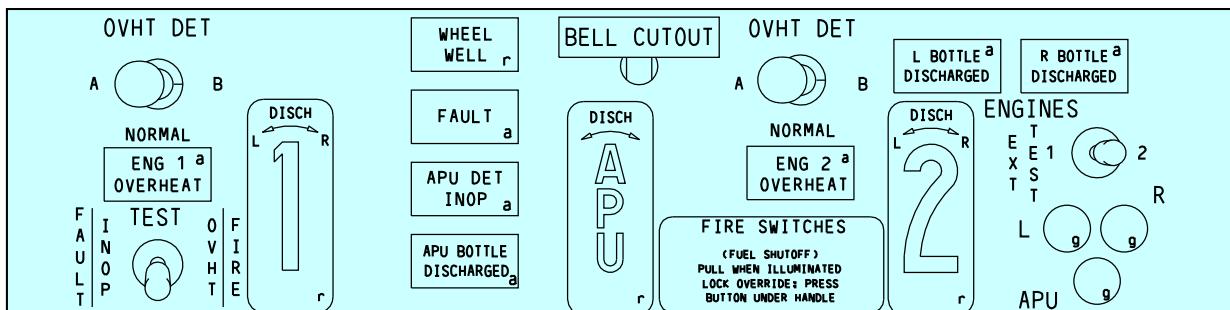
SUBTASK 26-16-00-860-024

- (15) Set the FWD and AFT DET SELECT switches to back to NORM.

———— END OF TASK ————



26-16-00

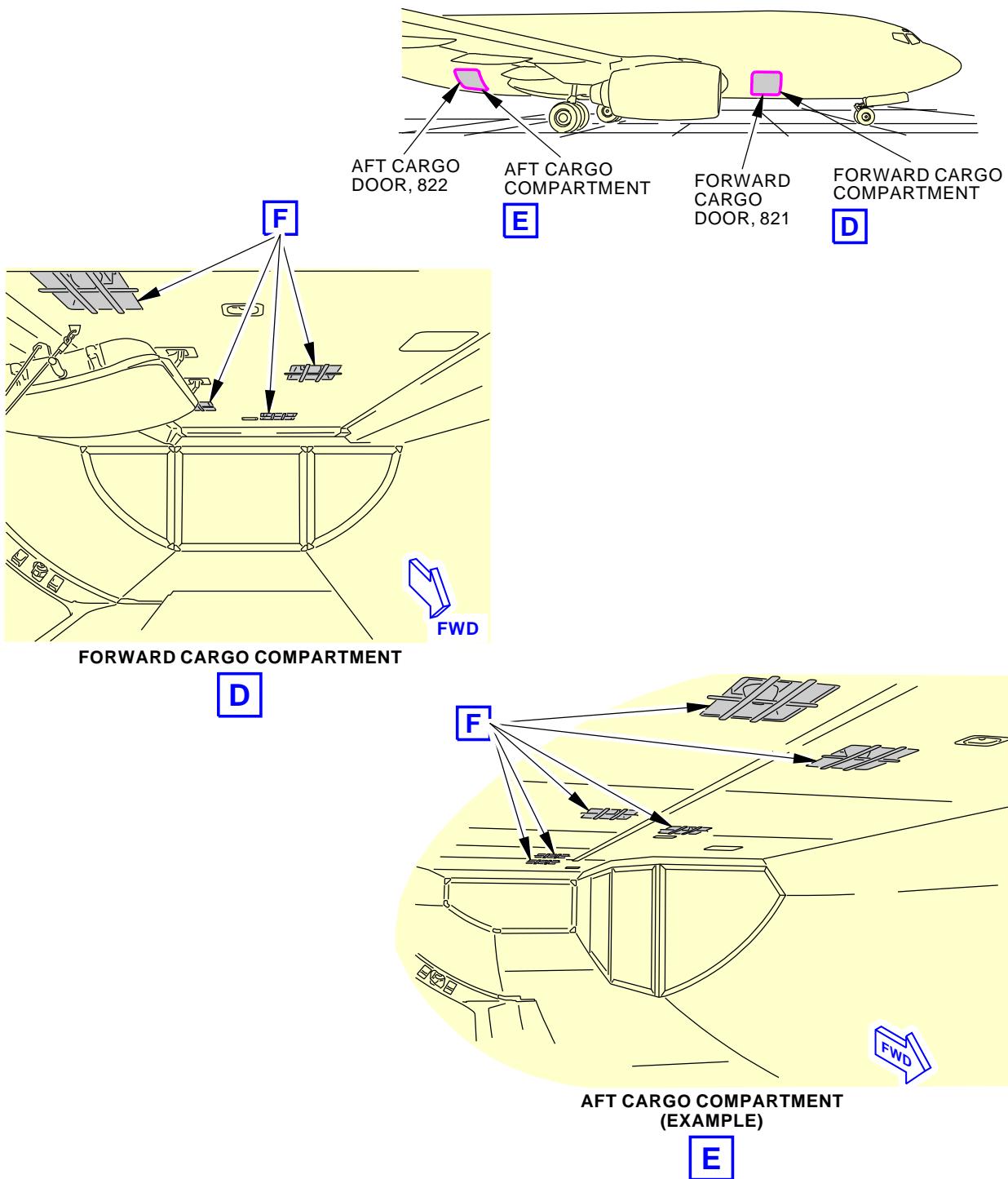

FLIGHT COMPARTMENT

CARGO FIRE CONTROL PANEL (P8)
B

FIRE CONTROL PANEL (P8-1)
C

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Cargo Bay Smoke Detection Test
Figure 501/26-16-00-990-801 (Sheet 1 of 3)

 EFFECTIVITY
 AKS ALL

26-16-00



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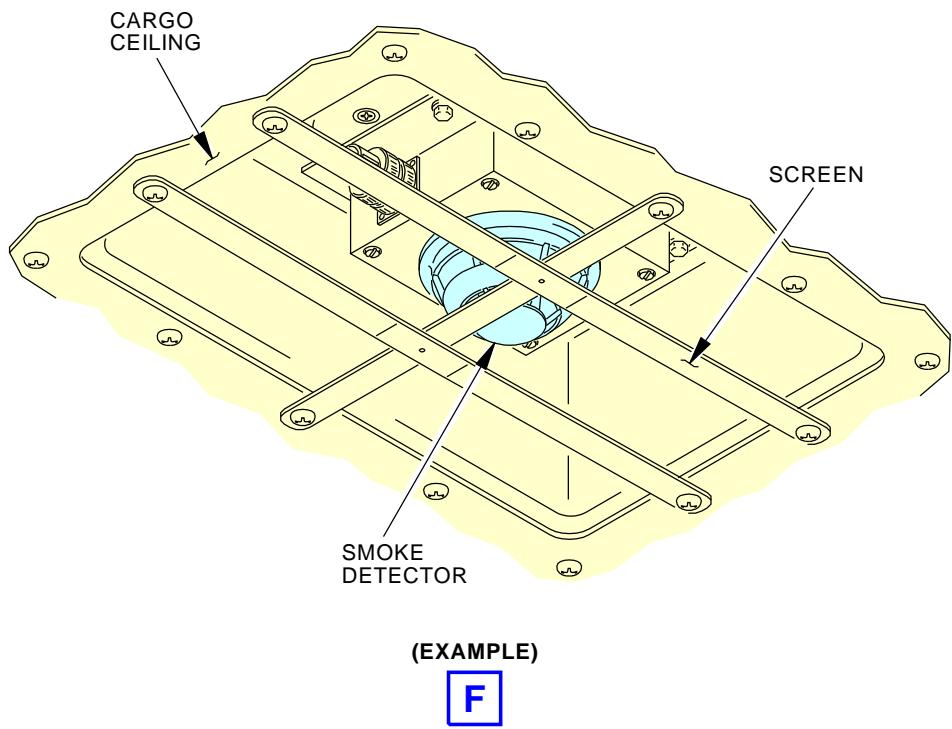
Cargo Bay Smoke Detection Test
Figure 501/26-16-00-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

26-16-00



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Cargo Bay Smoke Detection Test
Figure 501/26-16-00-990-801 (Sheet 3 of 3)

EFFECTIVITY
AKS ALL

26-16-00

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TASK 26-16-00-730-801

3. Cargo Bay Smoke Detection - Smoke Test

(Figure 501)

A. General

- (1) When the DET SEL switch is set to A, and any detector in loop A detects smoke, an alarm will occur. Similarly, when the DET SEL switch is set to B, and the B loop detects smoke, the alarm will occur. When the DET SEL switch is set to NORM, smoke must be detected by a detector in loop A and loop B (any detector in both loops, they do not have to be a pair) before the alarm will occur.

NOTE: If you apply too much smoke to a detector, the excess smoke could affect adjacent detectors. Try to limit the amount of smoke applied to each detector.

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
24-22-00-860-813	Supply External Power (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-11202	Smoke Generator - Lavatory/Crew Rest Smoke Detector (or 737 Cargo Area Type Smoke Detectors) Part #: 25S Supplier: 61908 Part #: SOLOA4 Supplier: 1WU32

D. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

E. Prepare for the Test

SUBTASK 26-16-00-860-004

- (1) Do this task: Supply External Power, TASK 24-22-00-860-813.

SUBTASK 26-16-00-860-005

- (2) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

EFFECTIVITY
AKS ALL

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F. Smoke Test

SUBTASK 26-16-00-860-006

- (1) On the Cargo Fire Control panel, set the DET SELECT FWD switch to A.

SUBTASK 26-16-00-860-007

- (2) On the Cargo Fire Control panel, set the DET SELECT AFT switch to NORM.

SUBTASK 26-16-00-730-005

- (3) Use a smoke generator, COM-11202, to make smoke adjacent to the forward left detector in the forward cargo bay.

SUBTASK 26-16-00-730-006

- (4) Make sure that these indications occur:

- (a) On the Cargo Bay Fire Control panel, the FWD CARGO FIRE light (red) comes on.
- (b) On the Pilot's Glareshield, P7, the Captain's and First Officer's FIRE WARN lights (red) come on.
- (c) In the flight compartment, the fire bell comes on.

SUBTASK 26-16-00-730-003

- (5) On the Cargo Fire Control panel, set the FWD DET and AFT DET switch to NORM.

- (a) Make sure all the alarm indications stop.

SUBTASK 26-16-00-860-008

- (6) Clear the smoke from the cargo bay.

NOTE: If the smoke is not cleared from the cargo bay within 60 seconds, the smoke indications will occur again.

SUBTASK 26-16-00-730-004

- (7) Do the Smoke Test again for each of the other cargo bay smoke detectors.

Table 501/26-16-00-993-801

FWD DET SWITCH POSITION	AFT DET SWITCH POSITION	CARGO BAY	LOCATION	EQUIPMENT NUMBER
A	NORM	FWD	FWD LEFT	M2238
A	NORM	FWD	AFT LEFT	M2239
B	NORM	FWD	FWD RIGHT	M2240
B	NORM	FWD	AFT RIGHT	M2241
NORM	A	AFT	FWD LEFT	M2242
NORM	A	AFT	MID LEFT	M2243
NORM	A	AFT	AFT RIGHT (ADJACENT TO M2247)	M2244
NORM	B	AFT	FWD RIGHT	M2245
NORM	B	AFT	MID RIGHT	M2246
NORM	B	AFT	AFT RIGHT (ADJACENT TO M2244)	M2247

EFFECTIVITY
AKS ALL

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G. Put the Airplane Back to Its Usual Condition

SUBTASK 26-16-00-860-009

- (1) On the Cargo Fire Control panel, set the FWD DET and AFT DET switches to NORM.

SUBTASK 26-16-00-860-010

- (2) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-16-00



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CARGO BAY SMOKE DETECTOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Removal of the cargo bay smoke detector.
 - (2) Installation of the cargo bay smoke detector.

TASK 26-16-01-000-801

2. Cargo Bay Smoke Detector Removal

(Figure 401)

A. General

- (1) This task gives instructions to remove the Cargo Bay Smoke Detector.

B. References

Reference	Title
26-16-01-100-801	Clean the Cargo Bay Smoke Detectors (P/B 701)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Removal

SUBTASK 26-16-01-860-003

- (1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

E. Cargo Bay Smoke Detector Removal

SUBTASK 26-16-01-020-002

- (1) Remove the screws [3] that hold the screen [1] to the cargo ceiling.

SUBTASK 26-16-01-020-003

- (2) Remove the screws [5] and washers [4] that hold the smoke detector [2] to the detector pan.

SUBTASK 26-16-01-020-004

- (3) Disconnect the electrical connector from the smoke detector [2].

SUBTASK 26-16-01-160-003

- (4) If it is necessary, do this task: Clean the Cargo Bay Smoke Detectors, TASK 26-16-01-100-801.

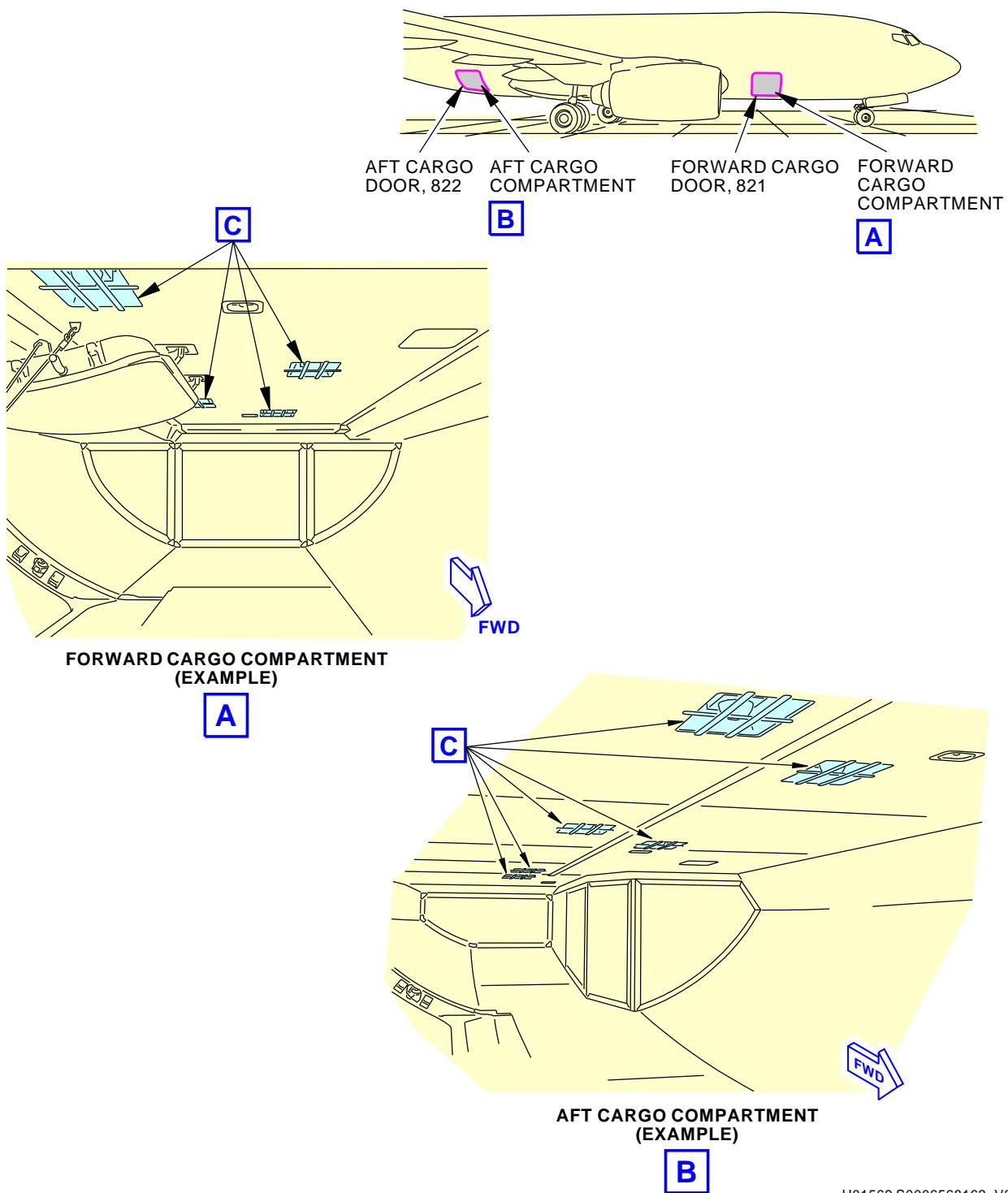
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EFFECTIVITY
AKS ALL

26-16-01



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Cargo Bay Smoke Detector Installation
Figure 401/26-16-01-990-801 (Sheet 1 of 3)

EFFECTIVITY
AKS ALL

26-16-01

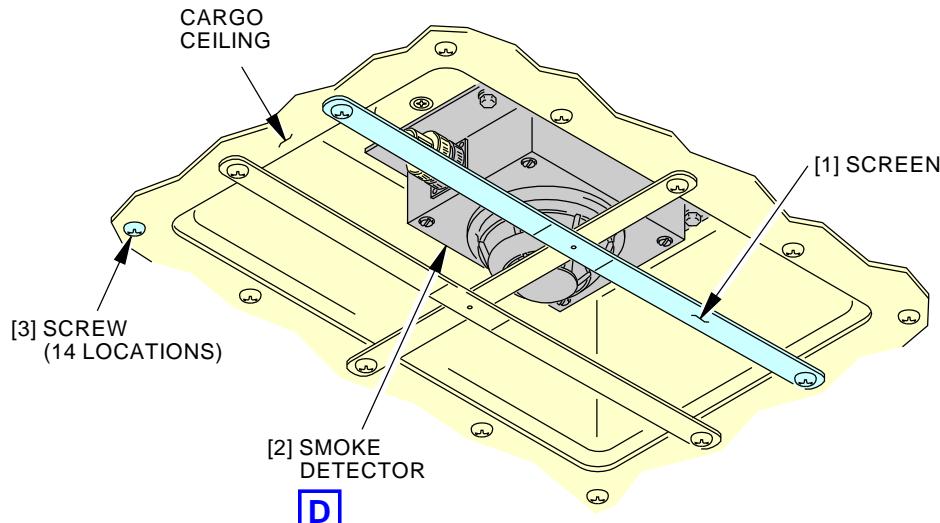
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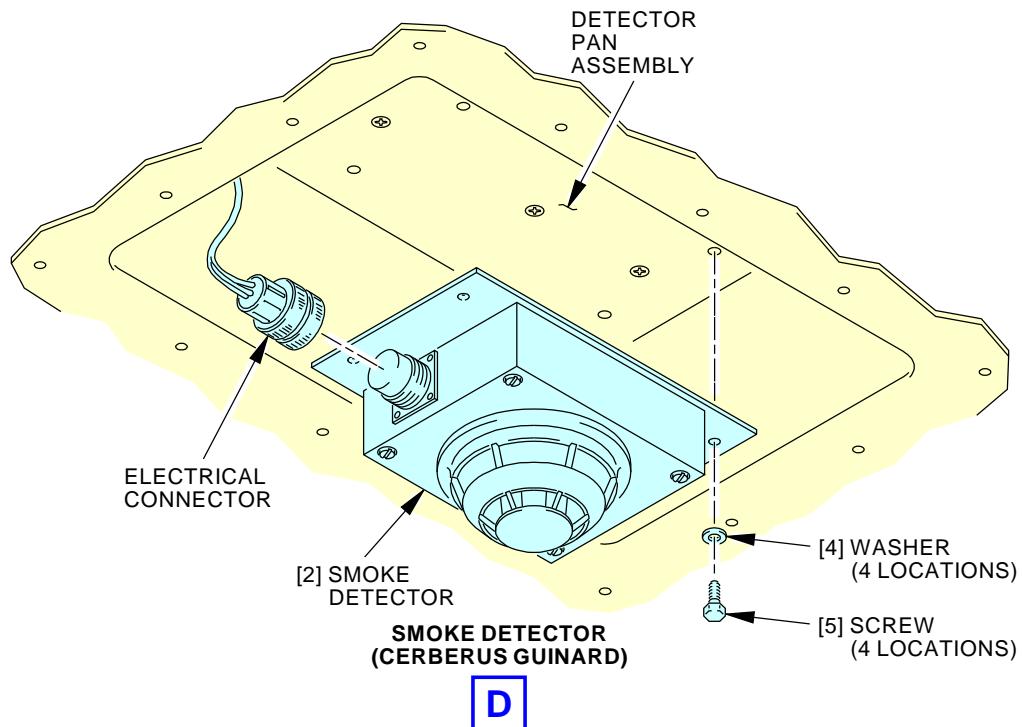
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(EXAMPLE)



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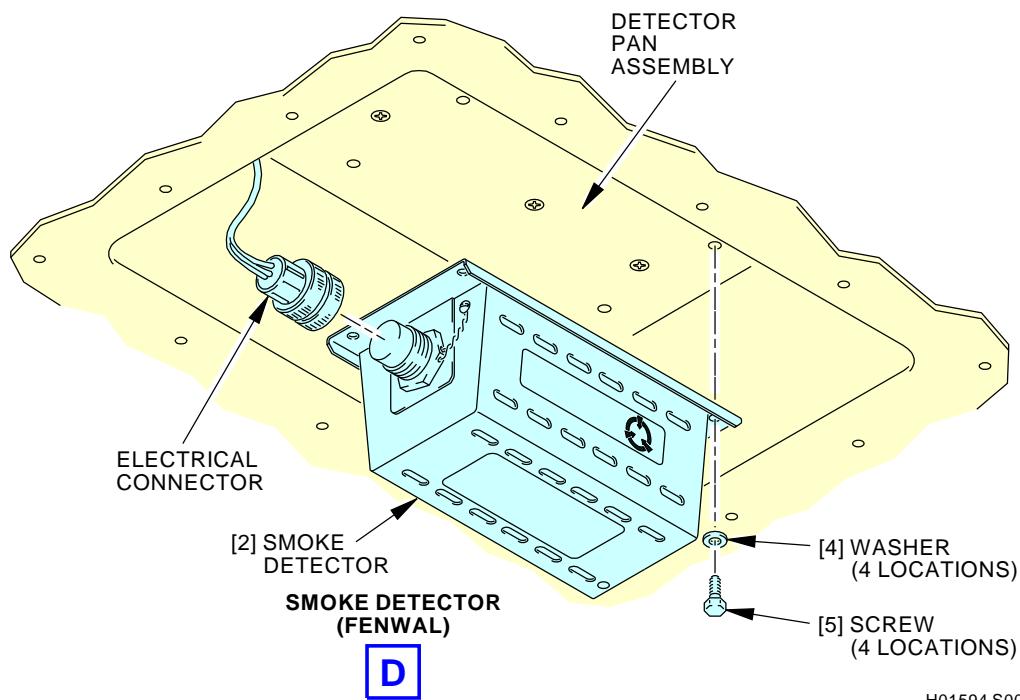
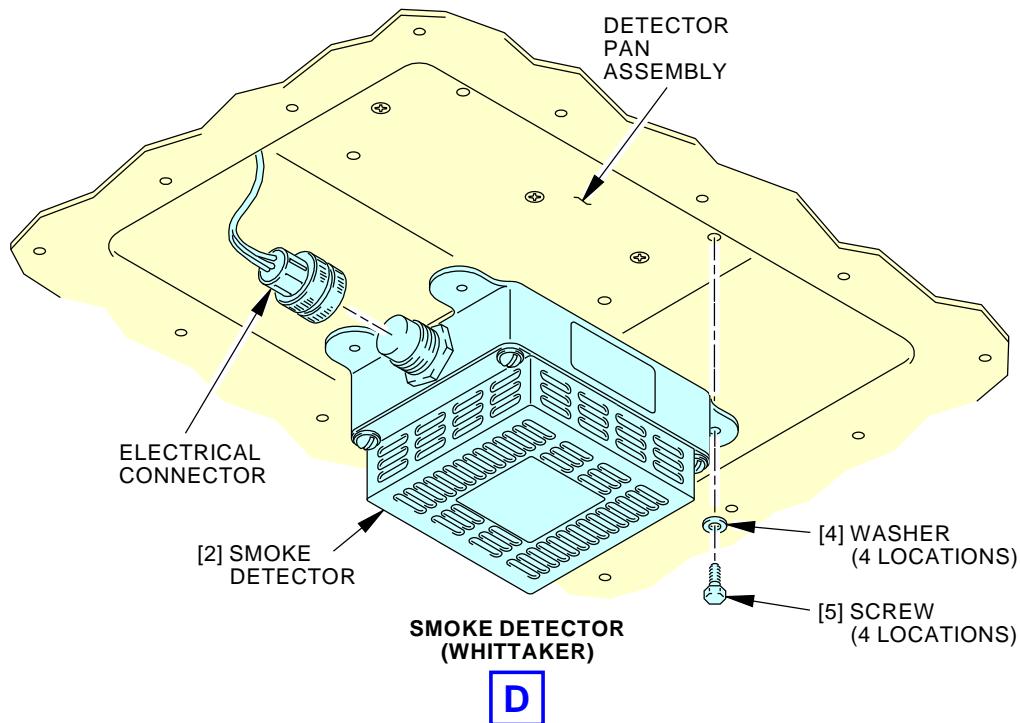
Cargo Bay Smoke Detector Installation
Figure 401/26-16-01-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

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Cargo Bay Smoke Detector Installation
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TASK 26-16-01-400-801

3. Cargo Bay Smoke Detector Installation

(Figure 401)

A. General

- (1) This task gives instructions to install the Cargo Bay Smoke Detector.

B. References

Reference	Title
26-16-00-710-801	Cargo Bay Smoke Detection - Operational Test (P/B 501)

C. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

D. Prepare for the Installation

SUBTASK 26-16-01-860-004

- (1) Make sure that these circuit breakers are open:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

E. Install the Cargo Bay Smoke Detector

SUBTASK 26-16-01-420-002

- (1) Connect the airplane electrical connector to the electrical connector on the smoke detector [2].

SUBTASK 26-16-01-420-003

- (2) Position the smoke detector [2] on the detector pan and secure it with washers [4] and screws [5].

SUBTASK 26-16-01-420-004

- (3) Position the screen [1] on the cargo ceiling and secure it with screws [3].

F. Cargo Bay Smoke Detector Installation Test

SUBTASK 26-16-01-860-005

- (1) Close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A



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SUBTASK 26-16-01-710-002

- (2) Do this task: Cargo Bay Smoke Detection - Operational Test, TASK 26-16-00-710-801.

———— END OF TASK ——

EFFECTIVITY
AKS ALL

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CARGO BAY SMOKE DETECTOR - CLEANING/PAINTING

1. General

- A. This procedure has a task which cleans the cargo bay smoke detectors.
- B. Each cargo bay has smoke detectors installed in the ceiling. The cleaning procedure is the same for each smoke detector.

TASK 26-16-01-100-801

2. Clean the Cargo Bay Smoke Detectors

A. Tools/Equipment

Reference	Description
STD-123	Brush - Soft Bristle
STD-1086	Gloves - Rubber
STD-3939	Air Source - Regulated, Dry Filtered, 0 to 10 psig (0 to 69 kPa)

B. Consumable Materials

Reference	Description	Specification
B00065	Alcohol - Denatured, Ethyl (Ethanol)	AMS 3002 (Supersedes O-A-396)
B50073	Alcohol - Isopropyl	ASTM D 770
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A

C. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

D. Clean the Smoke Detector

SUBTASK 26-16-01-860-001

- (1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

EFFECTIVITY
AKS ALL

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SUBTASK 26-16-01-160-001

WARNING: WHEN YOU CLEAN THE SMOKE DETECTOR AND SENSOR, MAKE SURE THE AREA HAS SUFFICIENT AIRFLOW. KEEP THE ALCOHOL AWAY FROM HEAT, SPARKS OR FLAMES. DO NOT BREATH THE FUMES FROM THE ALCOHOL. PUT ON RUBBER GLOVES. ALCOHOL IS A FLAMMABLE AND POISONOUS SOLVENT WHICH CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

WARNING: ISOPROPYL ALCOHOL IS AN AGENT THAT IS FLAMMABLE, EXPLOSIVE, AND POISONOUS. MAKE SURE ALL PERSONS OBEY ALL OF THE PRECAUTIONS WHEN ISOPROPYL ALCOHOL IS USED.

- GAS/AIR MIXTURES MORE THAN THE LOWER EXPLOSIVE LIMIT (LEL) CAN CAUSE AN EXPLOSION IF HIGH HEAT, SPARKS, OR FLAMES SUPPLY IGNITION.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET ISOPROPYL ALCOHOL IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

(2) Put on rubber gloves, STD-1086.

SUBTASK 26-16-01-160-002

(3) Remove the dirt from the exterior of the smoke detector [2] with the cotton wiper, G00034 soaked with alcohol, B00065.

SUBTASK 26-16-01-210-001

CAUTION: BLOW THE AIR LIGHTLY INTO THE SENSOR ASSEMBLY. IF YOU BLOW THE AIR WITH TOO MUCH FORCE, IT CAN CAUSE A STATIC CHARGE ON THE ELECTRODES WHICH CAN CAUSE DAMAGE TO THE SMOKE SENSOR.

(4) Use soft bristle brush, STD-123 and compressed nitrogen at a maximum pressure of 15 psig, or with the 0 to 10 psig (0 to 69 kPa) dry filtered regulated air source, STD-3939, lightly blow any dirt or particles out of the sensor assembly.

NOTE: Scheduled cleaning is not necessary, but the smoke detector labyrinth must be kept clean to operate accurately.

- (a) Clean the connector.
- (b) Clean the dust screens.
- (c) Clean the inner area of the labyrinth.

(5) Clean unwanted material from the inner area of the labyrinth with a soft bristle brush, STD-123 and nitrogen (or clean, dry air).

NOTE: It is not necessary to fully disassemble the smoke detector to clean the inner area of the labyrinth.

(6) Clean the electrical connector pins with alcohol, B50073.

SUBTASK 26-16-01-860-002

(7) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B

EFFECTIVITY
AKS ALL

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(Continued)

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

———— END OF TASK ————

EFFECTIVITY
AKS ALL

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CARGO ELECTRONIC UNIT - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Removal of the Cargo Electrical Unit, referred to as the CEU.
 - (2) Installation of the CEU.
- B. The CEU is installed in the ceiling of each cargo bay.

TASK 26-16-02-000-801

2. Cargo Electronic Unit Removal

(Figure 401)

A. General

- (1) This task gives instructions to remove the Cargo Electronic Unit.

B. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
141	Aft Cargo Compartment - Left

C. Prepare for the Removal

SUBTASK 26-16-02-860-001

- (1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

SUBTASK 26-16-02-020-004

- (2) To get access to the CEUs, remove the screws [4] that attach the cover [7] to the cargo bay ceiling.

D. CEU Removal

SUBTASK 26-16-02-860-002

- (1) Remove the bolts [2] that attach the cargo electronic unit [1] to the airplane.

SUBTASK 26-16-02-020-002

- (2) Disconnect the electrical connectors from the cargo electronic unit [1].

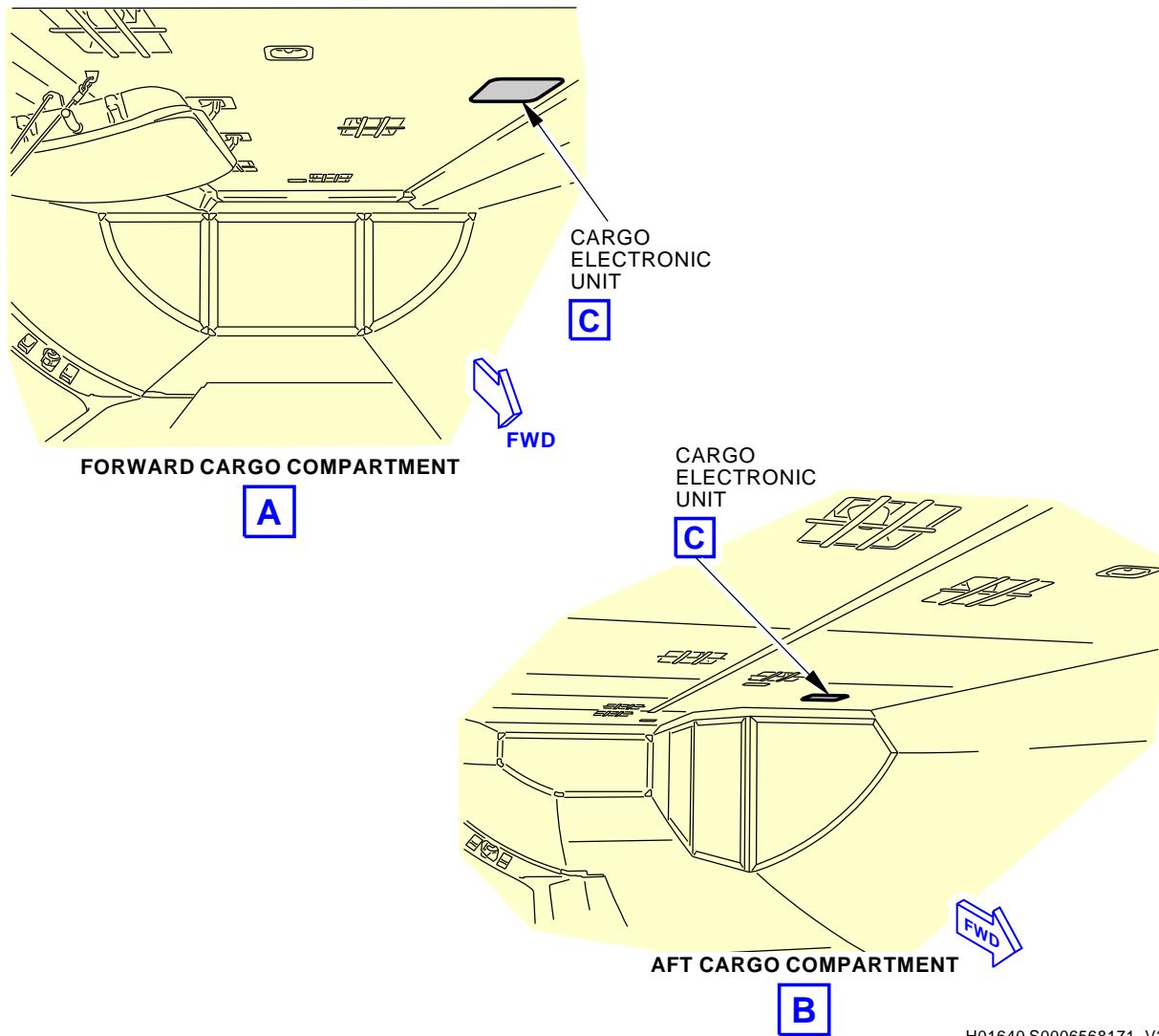
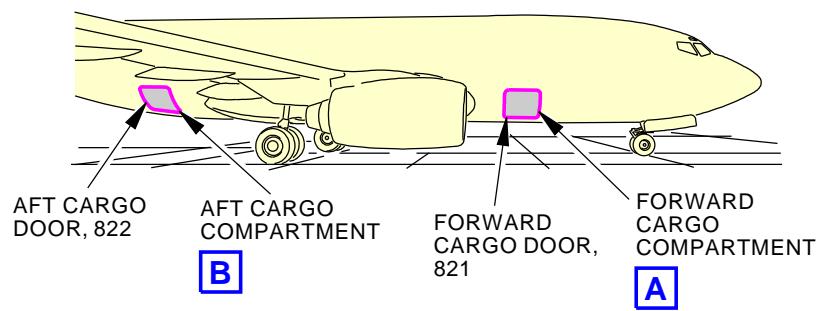
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Cargo Electronic Unit Installation
Figure 401/26-16-02-990-801 (Sheet 1 of 3)

EFFECTIVITY
AKS ALL

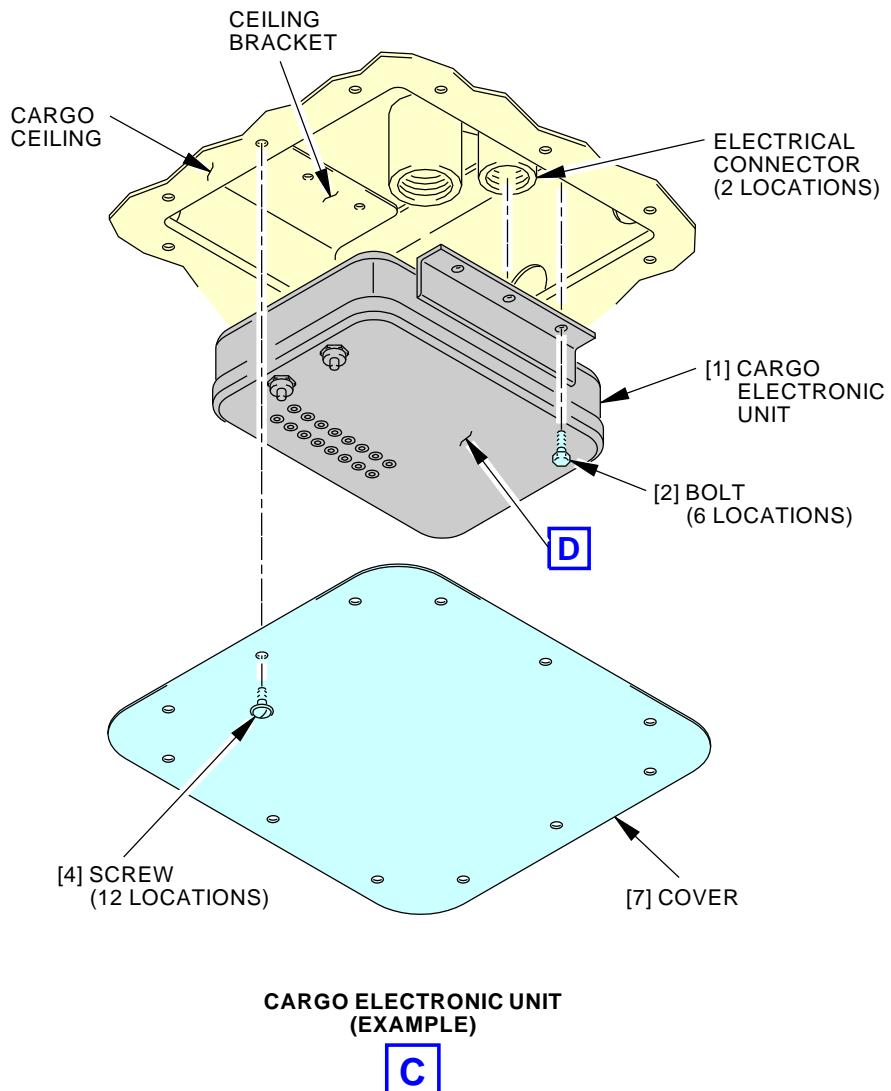
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Cargo Electronic Unit Installation
Figure 401/26-16-02-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

26-16-02

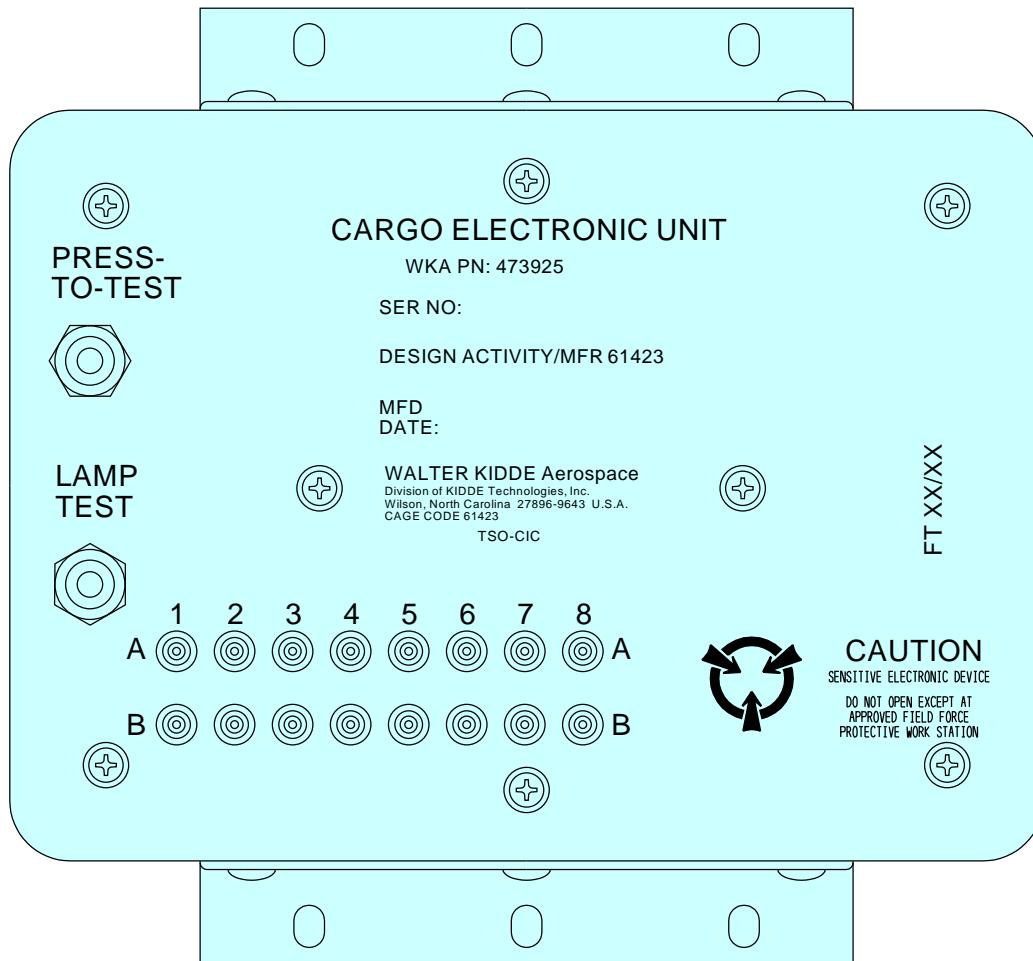
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Cargo Electronic Unit Installation
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EFFECTIVITY
AKS ALL

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TASK 26-16-02-400-801

3. Cargo Electronic Unit Installation

(Figure 401)

A. General

- (1) This task gives instructions to install the Cargo Electronic Unit.

B. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
141	Aft Cargo Compartment - Left

C. Prepare for the Installation

SUBTASK 26-16-02-860-003

- (1) Make sure that these circuit breakers are open:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

D. CEU Installation

SUBTASK 26-16-02-420-001

- (1) Connect the airplane electrical connectors to the electrical connectors on the cargo electronic unit [1].

SUBTASK 26-16-02-420-002

- (2) Put the cargo electronic unit [1] in position on the airplane bracket and attach it with bolts [2].

E. Put the Airplane Back to its Usual Condition

SUBTASK 26-16-02-860-009

- (1) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

———— END OF TASK ————



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TASK 26-16-02-710-801

4. Cargo Electronic Unit Installation Test

(Figure 401)

A. Prepare for the Test

SUBTASK 26-16-02-860-004

- (1) Close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

SUBTASK 26-16-02-020-003

- (2) If they are installed, remove the screws [4] that attach the cover [7] to the cargo bay ceiling.

B. Do the Test

SUBTASK 26-16-02-710-001

- (1) Push and hold the LAMP TEST switch on the CEU.
(a) Make sure all A and B loop smoke detector indicators, on the CEU, come on.

SUBTASK 26-16-02-710-002

- (2) Release the LAMP TEST switch.

SUBTASK 26-16-02-710-003

- (3) Push and hold the PRESS TO TEST switch on the CEU for a minimum of five seconds.
(a) Make sure all A and B loop smoke detector indicators, on the CEU, come on.

SUBTASK 26-16-02-710-004

- (4) Release the PRESS TO TEST switch.

C. Put the Airplane Back to Its Usual Condition

SUBTASK 26-16-02-420-003

- (1) Put the cover [7] in position on the cargo ceiling and attach it with screws [4].

———— END OF TASK ————



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WHEEL WELL, WING AND LOWER AFT BODY OVERHEAT DETECTION SYSTEM - MAINTENANCE
PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Wheel well, wing and lower aft body overheat detection system - deactivation.
 - (2) Wheel well, wing and lower aft body overheat detection system - activation.

TASK 26-18-00-040-801

2. Wheel Well, Wing and Lower Aft Body Overheat Detection System - Deactivation

A. General

- (1) This task will deactivate the wheel well, wing and lower aft body overheat detection system.

B. Location Zones

Zone	Area
131	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Left
132	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Right
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
145	Aft Cargo Compartment Equipment Bay - Left
212	Flight Compartment - Right
512	Left Wing - Krueger Flap No. 2
612	Right Wing - Krueger Flap No. 3

C. Procedure

SUBTASK 26-18-00-020-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

D. Wheel Well, Wing and Lower Aft Body Overheat Detection System - Tryout

NOTE: This tryout is to make sure that the power to the wheel well, wing and lower aft body overheat detection system is in zero energy state.

SUBTASK 26-18-00-410-001

- (1) Push and hold the OVHT TEST switch on the P5-10 panel for a minimum of 5 seconds.
 - (a) Make sure that neither of the two WING-BODY OVERHEAT lights comes on.
 - (b) On the P7 panel, make sure that the AIR COND light does not come on.
 - (c) On the P7 panel, make sure that the captain's and the first officer's MASTER CAUTION lights do not come on.

SUBTASK 26-18-00-020-002

- (2) Release the OVHT TEST switch.

SUBTASK 26-18-00-410-002

- (3) Put and hold the TEST switch to the OVHT/FIRE position on the P8-1 panel.
 - (a) Make sure that the WHEEL WELL light does not come on.

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(b) Make sure that the flight compartment fire bell does not come on.

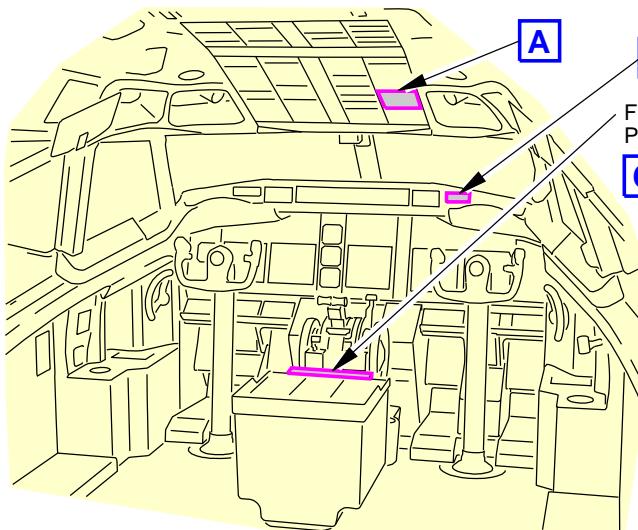
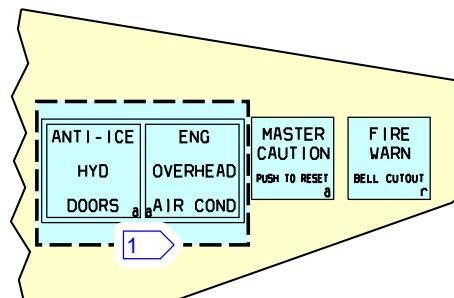
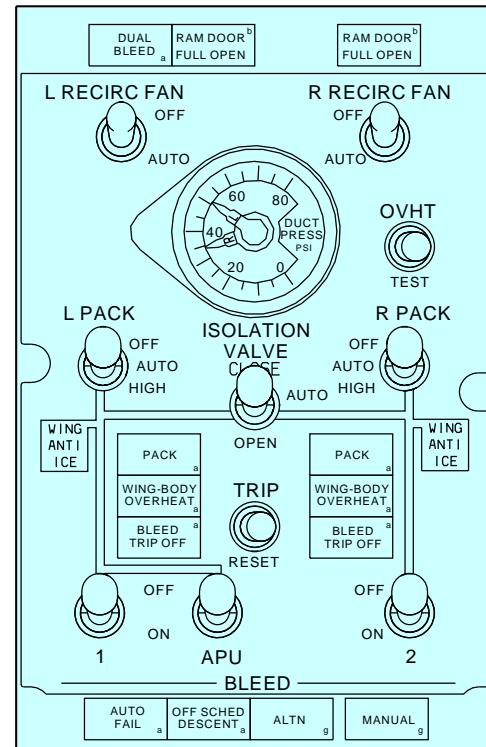
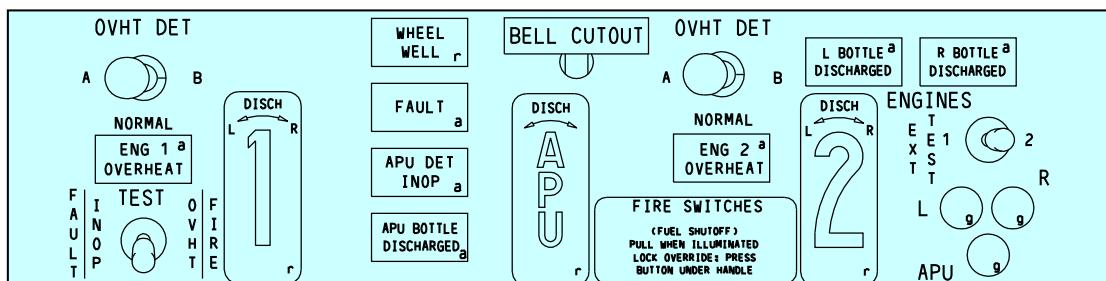
SUBTASK 26-18-00-020-003

(4) Release the TEST switch.

———— END OF TASK ————

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FLIGHT COMPARTMENT

**FIRST OFFICER'S WARNING LIGHTS (P7)
(CAPTAIN'S FIRE WARN AND MASTER CAUTION
LIGHTS ARE OPPOSITE)**
B

**BLEED AIR CONTROL
MODULE (P5)**
A

FIRE CONTROL PANEL (P8-1)
C
1 FIRST OFFICER'S

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**Wheel Well, Wing and Lower Aft Body Overheat Detection System
Figure 201/26-18-00-990-802**
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TASK 26-18-00-440-801

3. **Wheel Well, Wing and Lower Aft Body Overheat Detection System - Activation**
(Figure 201)

A. General

- (1) This task will activate the wheel well, wing and lower aft body overheat detection system.

B. Location Zones

Zone	Area
131	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Left
132	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Right
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
145	Aft Cargo Compartment Equipment Bay - Left
212	Flight Compartment - Right
512	Left Wing - Krueger Flap No. 2
612	Right Wing - Krueger Flap No. 3

C. Procedure

SUBTASK 26-18-00-420-001

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

———— END OF TASK ————



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WHEEL WELL, WING AND LOWER AFT BODY OVERHEAT DETECTION SYSTEM - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. The procedures that follow contain the tests for the wheel well, wing and lower aft body overheat detection system, which will be referred to as the overheat detection system throughout the procedures.
- C. This procedure consists of this task:
 - (1) An operational test of the overheat detection system.

TASK 26-18-00-710-801

2. Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test
(Figure 501)

A. General

- (1) The Operational Test does a check of the Overheat Fire Detection System without disturbing the detection system and it only uses the equipment that is on the airplane.
- (2) The operational test can be performed on the flight deck, or in the E/E bay.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Operational Test

SUBTASK 26-18-00-860-001

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 26-18-00-860-002

- (2) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2

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(Continued)

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6
F	13	C01179	INDICATOR MASTER DIM SECT 7
F	14	C01180	INDICATOR MASTER DIM SECT 8

SUBTASK 26-18-00-860-003

- (3) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

E. Overheat Detection System Operational Test - Flight Compartment

SUBTASK 26-18-00-710-001

- (1) Move and hold the TEST switch on the Engine and APU Fire Control Panel to the OVHT/FIRE position.
 - (a) Make sure the WHEEL WELL light on the Engine and APU Fire Control Panel comes on.
 - (b) Make sure the Captain's and First Officer's FIRE WARN lights on the Pilot's Glareshield, P7, come on.
 - (c) Make sure the flight compartment fire bell in the Aural Warning Module, M315, comes on.

SUBTASK 26-18-00-710-002

- (2) Release the TEST switch on the Engine and APU Fire Control Panel.
 - (a) Make sure the WHEEL WELL light on the Engine and APU Fire Control Panel goes off.
 - (b) Make sure the Captain's and First Officer's FIRE WARN lights on the Pilot's Glareshield go off.
 - (c) Make sure the flight compartment fire bell in the Aural Warning Module, M315, stops.

SUBTASK 26-18-00-710-003

- (3) Push and hold the OVHT TEST switch on the air conditioning panel, P5-10, for at least 5 seconds.
 - (a) On the air conditioning panel, P5-10, make sure these lights come on:
 - 1) The left WING-BODY OVERHEAT light.
 - 2) The right WING-BODY OVERHEAT light.
 - (b) On the Pilot's Glareshield, P7, make sure these lights come on:
 - 1) The AIR COND light.
 - 2) The Captain's and First Officer's MASTER CAUTION lights.

SUBTASK 26-18-00-710-004

- (4) Release the OVHT TEST switch on the air conditioning panel, P5-10.



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- (a) On the air conditioning panel, P5-10, make sure these lights go off:
 - 1) The left WING-BODY OVERHEAT light.
 - 2) The right WING-BODY OVERHEAT light.
- (b) On the Pilot's Glareshield, P7, make sure these lights go off:
 - 1) The AIR COND light.
 - 2) The Captain's and First Officer's MASTER CAUTION lights.

F. Overheat Detection System Operational Test - E/E Bay

SUBTASK 26-18-00-710-005

- (1) Push and release the DISP TEST switch on the compartment overheat detection module.
 - (a) Make sure the code 88 comes on, then goes off.

SUBTASK 26-18-00-710-006

- (2) Push and release the LOC TEST switch on the compartment overheat detection module.
 - (a) Make sure the code 90 comes on while the test is in progress, then the code 99 comes on to show there are no faults.

SUBTASK 26-18-00-710-007

- (3) Push and release the MEM READ switch on the compartment overheat detection module.
 - (a) Make sure the code 97 comes on to show the test is complete.

SUBTASK 26-18-00-710-008

- (4) Push and release the MEM CLEAR switch on the compartment overheat detection module.
 - (a) Make sure the code 97 goes off.
 - (b) Make sure the MAINT ADV light stays off.

G. Put the Airplane Back to its Usual Condition.

SUBTASK 26-18-00-860-004

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

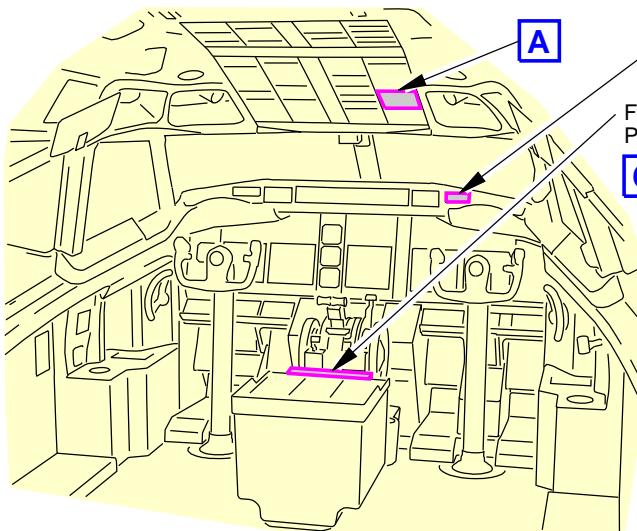
<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

———— END OF TASK ————

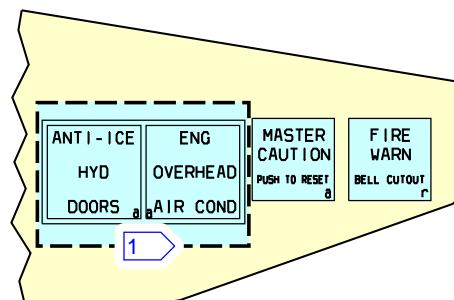
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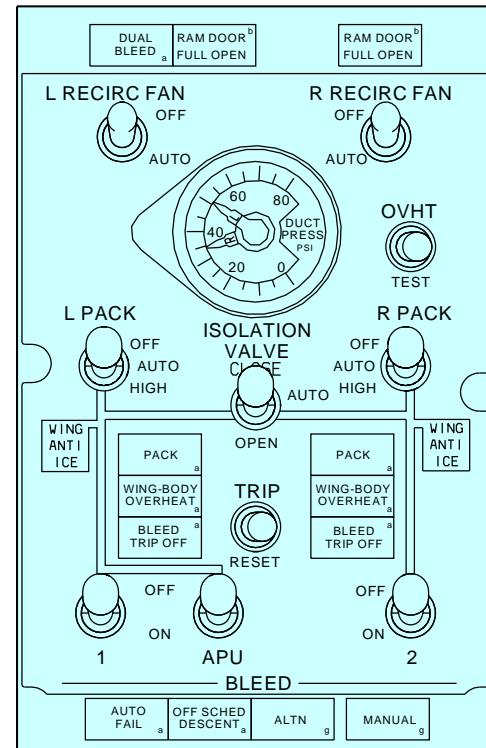


FLIGHT COMPARTMENT



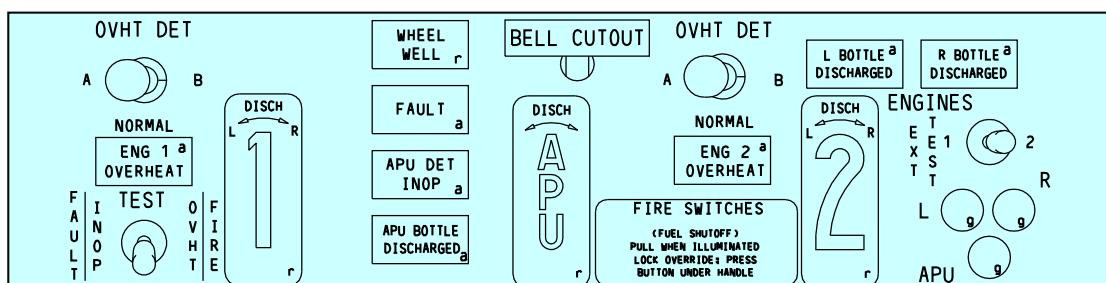
FIRST OFFICER'S WARNING LIGHTS (P7)
(CAPTAIN'S FIRE WARN AND MASTER CAUTION
LIGHTS ARE OPPOSITE)

B



**BLEED AIR CONTROL
MODULE (P5)**

A



FIRE CONTROL PANEL (P8-1)

C

1 FIRST OFFICER'S

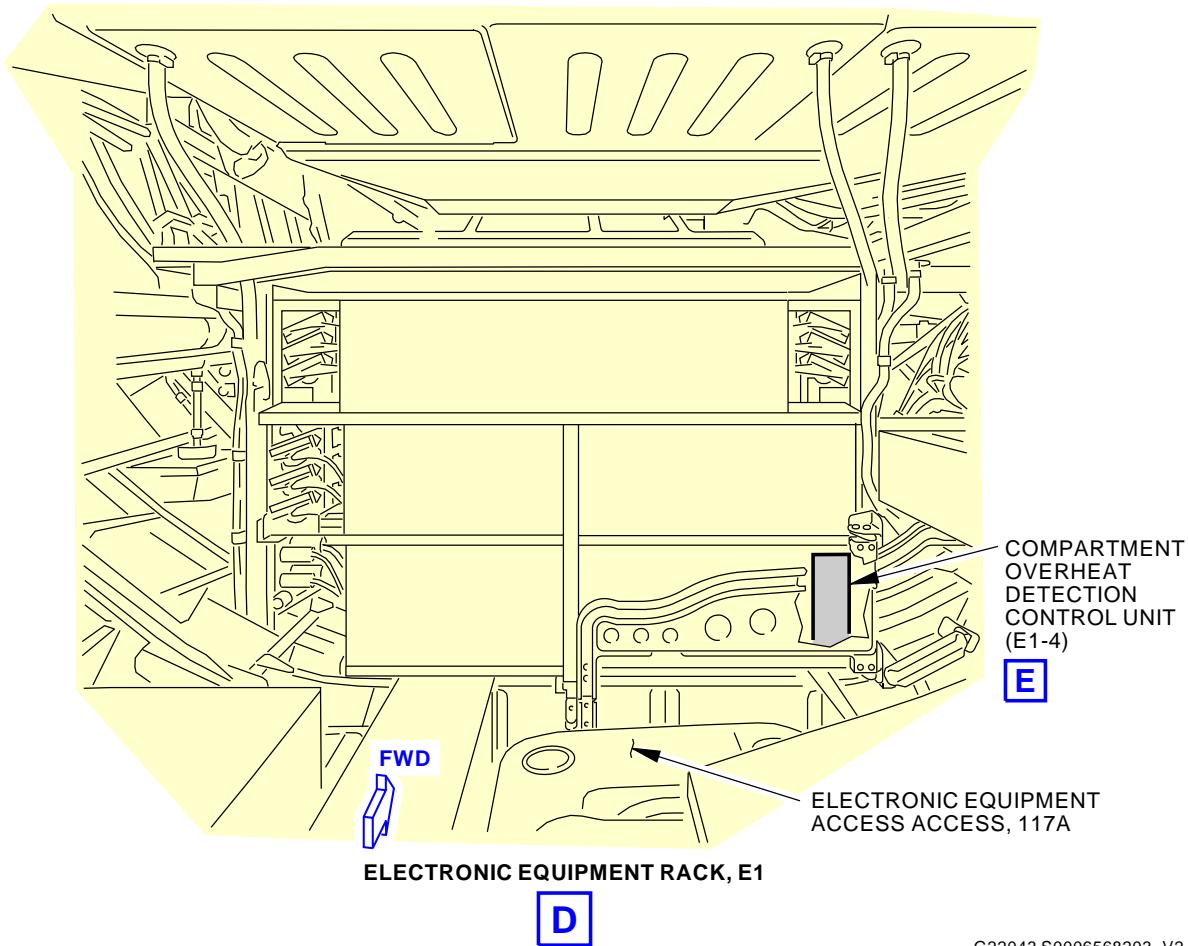
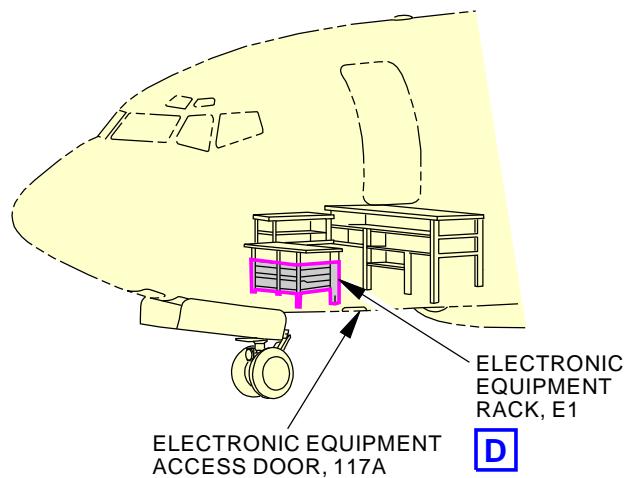
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Wheel Well, Wing and Lower Aft Body Overheat Detection System Operational Test
Figure 501/26-18-00-990-801 (Sheet 1 of 3)

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Wheel Well, Wing and Lower Aft Body Overheat Detection System Operational Test
Figure 501/26-18-00-990-801 (Sheet 2 of 3)

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AKS ALL

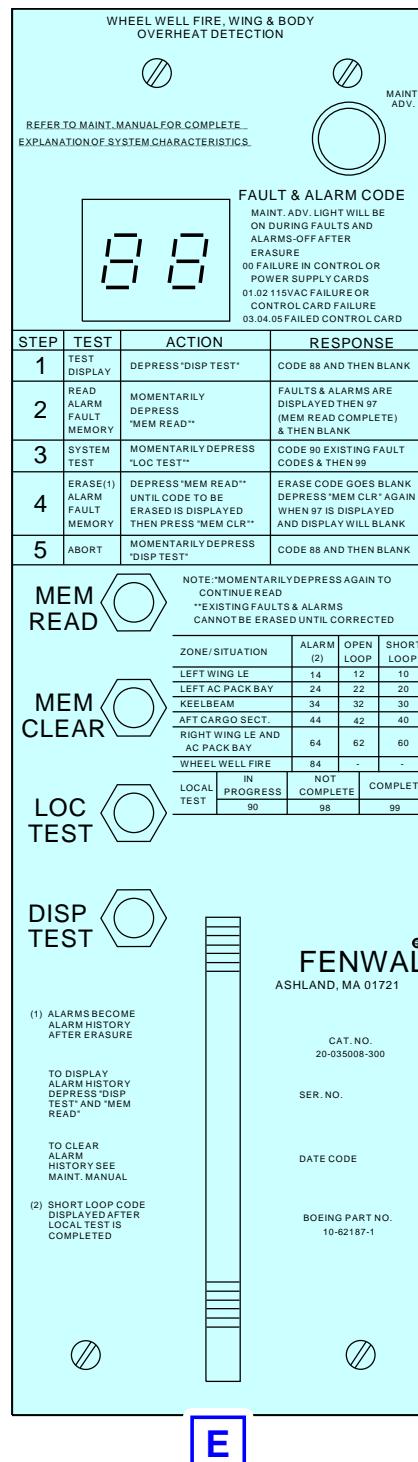
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**Wheel Well, Wing and Lower Aft Body Overheat Detection System Operational Test
Figure 501/26-18-00-990-801 (Sheet 3 of 3)**

EFFECTIVITY
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COMPARTMENT OVERHEAT DETECTION CONTROL UNIT, M237 - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the Compartment Overheat Detection Control Unit (M237), referred to as the control unit.
 - (2) An installation of the Compartment Overheat Detection Control Unit.
- B. The Compartment Overheat Detection Control Unit is installed on the E1-4 shelf in the electronic equipment compartment.

TASK 26-18-01-000-801

2. Compartment Overheat Detection Control Unit Removal

(Figure 401)

A. General

- (1) This task gives instructions to remove the Compartment Overheat Detection Control Unit.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)

C. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 26-18-01-860-004

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

SUBTASK 26-18-01-010-004

- (2) Open this access door:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

F. Compartment Overheat Detection Control Unit Removal

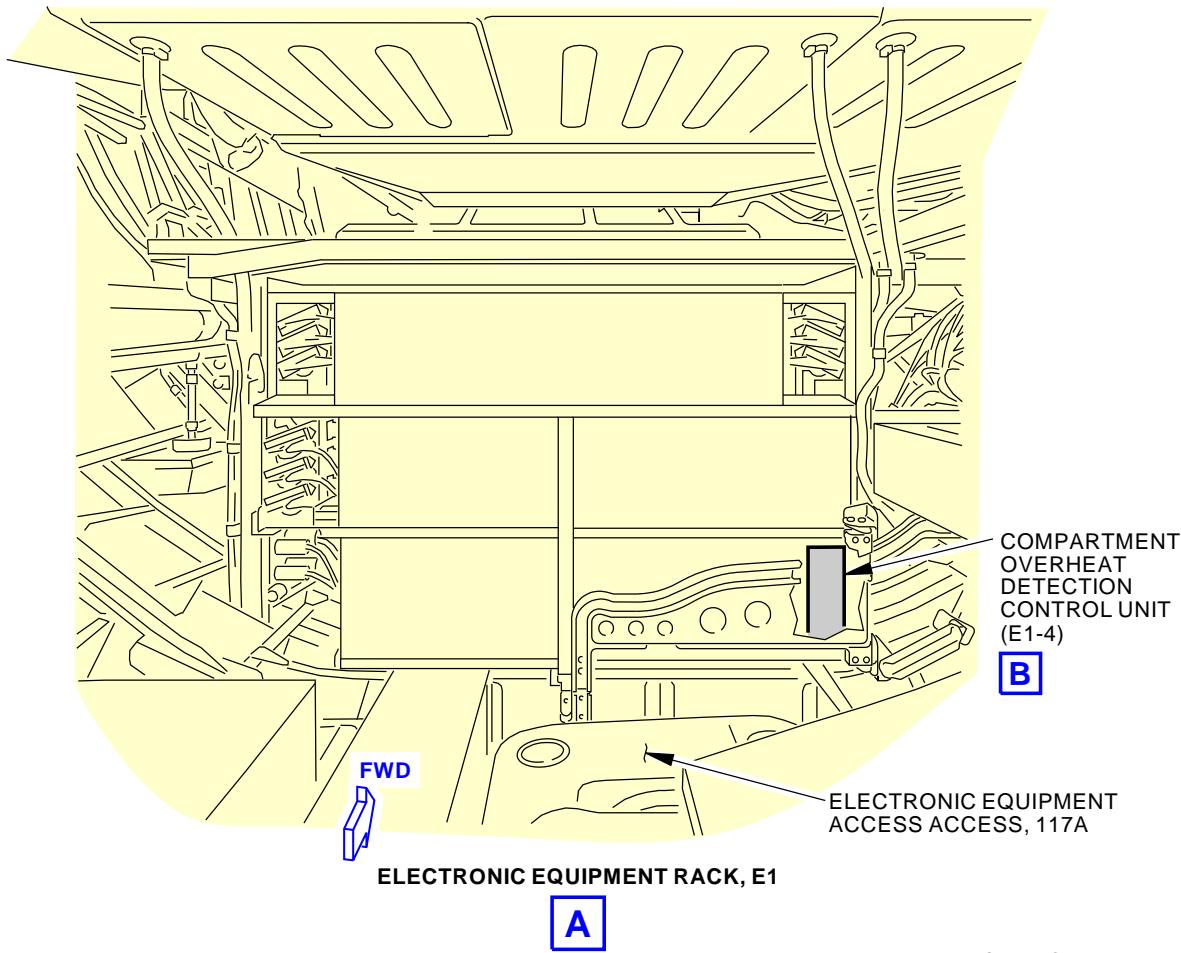
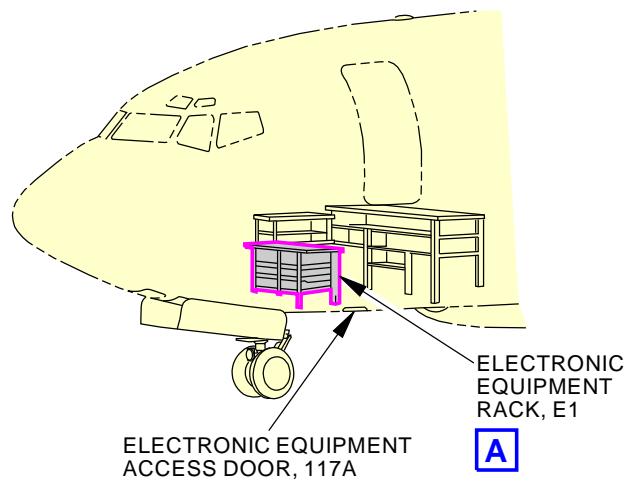
SUBTASK 26-18-01-020-001

- (1) Remove the compartment overheat detection control unit [1], do this task: E/E Box Removal, TASK 20-10-07-000-801.

———— END OF TASK ————



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Compartment Overheat Detection Control Unit Installation
Figure 401/26-18-01-990-801 (Sheet 1 of 2)

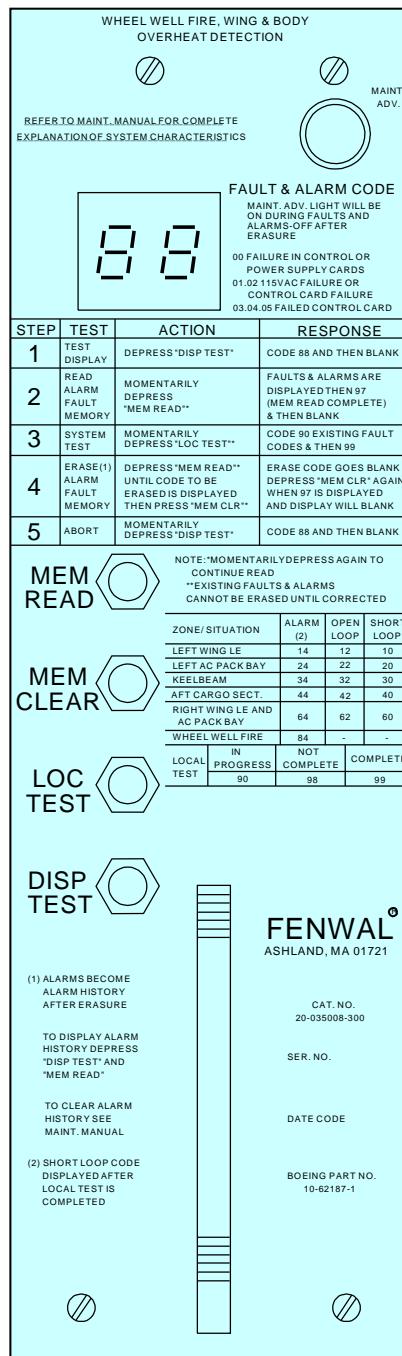
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[1] COMPARTMENT OVERHEAT DETECTION CONTROL UNIT

B

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Compartment Overheat Detection Control Unit Installation
Figure 401/26-18-01-990-801 (Sheet 2 of 2)

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TASK 26-18-01-400-801

3. Compartment Overheat Detection Control Unit Installation

(Figure 401)

A. General

- (1) This task gives instructions to install the Compartment Overhead Detection Control Unit.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
26-18-00-710-801	Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Installation

SUBTASK 26-18-01-860-005

- (1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

SUBTASK 26-18-01-010-005

- (2) Open this access door:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

F. Compartment Overheat Detection Control Unit Installation

SUBTASK 26-18-01-020-002

- (1) Install the compartment overheat detection control unit [1], do this task: E/E Box Installation, TASK 20-10-07-400-801.

G. Compartment Overheat Detection Control Unit Installation Test

SUBTASK 26-18-01-860-003

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

SUBTASK 26-18-01-710-001

- (2) Do this task: Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test, TASK 26-18-00-710-801.

NOTE: Do the portion of the test for the E/E bay.



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H. Put the Airplane Back to Its Usual Condition

SUBTASK 26-18-01-010-003

- (1) Close this access door:

Number Name/Location

117A Electronic Equipment Access Door

———— END OF TASK ————

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WING, WHEEL WELL, AND LOWER AFT BODY OVERHEAT DETECTION SENSING ELEMENT -
REMOVAL/INSTALLATION

1. General

- A. This section contains procedures to remove and install the long sensor elements, and the looped sensor elements.
 - (1) The long sensor elements are located in the wing area, the forward A/C Pack Bay, the Wheel Well, and the Aft Body Area.
 - (2) The looped sensor elements are located in the mid and aft A/C pack, and along the strut.
- B. The minimum element bend radius is 1 in. (25.4 mm). The best bend radius is three inches.
- C. The sensor element must be straight and away from the connector for one inch before bending.
- D. A list of all the compartment overheat detection sensing elements is shown in Table 401. Each loop is made up of one or more sensing elements that make a complete circuit with the Compartment Overheat Detection Module, M237. The loop is defined by the two pins in the electrical connector D742 that complete the circuit. The pins that define each loop are shown in the column "D742 PINS" of Table 401.

TASK 26-18-02-000-801

2. Wheel Well, Wing and Lower Aft Body Overheat Sensor Element Removal

(Figure 401, Figure 402, Figure 403, Figure 404, Figure 405, Figure 406, Figure 407)

A. General

- (1) This task gives instructions to remove the Wheel Well, Wing and Lower Aft Body Overheat Sensor Element.

B. References

Reference	Title
20-10-44-000-801	Lockwire, Cotter Pins, and Lockrings - Removal (P/B 401)
27-81-00-860-803	Leading Edge Flaps and Slats Extension (P/B 201)
27-81-00-860-804	Leading Edge Flaps and Slats Retraction (P/B 201)

C. Consumable Materials

Reference	Description	Specification
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
413	Engine 1 - Fan Cowl, Left
423	Engine 2 - Fan Cowl, Left

E. Prepare for the Removal

SUBTASK 26-18-02-860-001

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

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SUBTASK 26-18-02-010-001

- (2) Open the applicable access doors and panels Table 401.

Table 401/26-18-02-993-805

LOOP	D742 PINS	EQPT NO.	Sensor Element	Illustration	DETECTOR	OPEN/REMOVE FOR ACCESS
1	11, 10	M1912	element [13]	Figure 403	R AFT A/C PACK	ECS ACCESS DOOR, 192CR
		M1910	element [14]	Figure 403	R MID A/C PACK	ECS ACCESS DOOR, 192CR
		M356	element [15]	Figure 402	R FWD A/C PACK	ECS ACCESS DOOR, 192CR A/C PNEUMATIC TUBES
		M371	element [16]	Figure 401	R WING INBOARD	LE SLATS - EXTEND FULLY Leading Edge Flaps and Slats Extension, TASK 27-81-00-860-803 - RETRACT Leading Edge Flaps and Slats Retraction, TASK 27-81-00-860-804 ECS ACCESS DOOR, 192CR RAM AIR INLET LIP PANEL, 191HR FORWARD WING TO BODY FAIRING PANEL, 191FR INBOARD LEADING EDGE, REMOVABLE ACCESS PANEL, 611AB
		M269	element [17]	Figure 401	R WING OUTBOARD	LE SLATS - EXTEND FULLY Leading Edge Flaps and Slats Extension, TASK 27-81-00-860-803 - RETRACT Leading Edge Flaps and Slats Retraction, TASK 27-81-00-860-804 ECS ACCESS DOOR, 192CR RAM AIR INLET LIP PANEL, 191HR FORWARD WING TO BODY FAIRING PANEL, 191FR INBOARD LEADING EDGE, REMOVABLE ACCESS PANEL, 611AB
		M1763	element [18]	Figure 404	R FWD STRUT	FORWARD STRUT FAIRING, 441BT
		M1764	element [18]	Figure 404	R AFT STRUT	OUTBOARD LEADING EDGE BLOWOUT ACCESS DOOR, 621AB
2	13, 27	M276	element [19]	Figure 406	AFT, SECTION 48	STAB TRIM ACCESS

— EFFECTIVITY —
AKS ALL

26-18-02

D633A101-AKS



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AIRCRAFT MAINTENANCE MANUAL

Table 401/26-18-02-993-805 (Continued)

LOOP	D742 PINS	EQPT NO.	Sensor Element	Illustration	DETECTOR	OPEN/REMOVE FOR ACCESS
		M275	element [20]	Figure 406	AFT, SECTION 47	AFT CARGO LINING
		M347	element [21]	Figure 406	AFT, SECTION 46	AFT CARGO LINING
		M1147	element [22]	Figure 406	AFT, SECTION 46	AFT CARGO LINING
		M348	element [23]	Figure 406	AFT, SECTION 46	AFT CARGO LINING
3	9, 29	M273	element [24]	Figure 407	AFT KEEL BEAM	PANELS BELOW BEAM LANDING GEAR TRANSFER VALVE HYDRAULIC LINES COVERS TO FORWARD BULKHEAD COVERS TO AFT BULKHEAD
		M272	element [25]	Figure 407	FWD KEELBEAM	
4	8, 2	M1911	element [26]	Figure 403	L AFT A/C PACK	ECS ACCESS DOOR, 192CL
		M1909	element [27]	Figure 403	L MID A/C PACK	ECS ACCESS DOOR, 192CL
		M355	element [28]	Figure 402	L FWD A/C PACK	ECS ACCESS DOOR, 192CL A/C PNEUMATIC TUBES
5	4, 12	M370	element [16]	Figure 401	L WING INBOARD	LE SLATS - EXTEND FULLY Leading Edge Flaps and Slats Extension, TASK 27-81-00-860-803 - RETRACT Leading Edge Flaps and Slats Retraction, TASK 27-81-00-860-804 ECS ACCESS DOOR, 192CL RAM AIR INLET LIP PANEL, 191HL FORWARD WING TO BODY FAIRING PANEL, 191FL INBOARD LEADING EDGE, REMOVABLE ACCESS PANEL, 511AB

EFFECTIVITY
AKS ALL

26-18-02



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Table 401/26-18-02-993-805 (Continued)

LOOP	D742 PINS	EQPT NO.	Sensor Element	Illustration	DETECTOR	OPEN/REMOVE FOR ACCESS
		M268	element [17]	Figure 401	L WING OUTBOARD	LE SLATS - EXTEND FULLY Leading Edge Flaps and Slats Extension, TASK 27-81-00-860-803 - RETRACT Leading Edge Flaps and Slats Retraction, TASK 27-81-00-860-804 ECS ACCESS DOOR, 192CL RAM AIR INLET LIP PANEL, 191HL FORWARD WING TO BODY FAIRING PANEL, 191FL INBOARD LEADING EDGE, REMOVABLE ACCESS PANEL, 511AB
		M1761	element [18]	Figure 404	L STRUT FWD	FORWARD STRUT FAIRING, 431BT
		M1762	element [18]	Figure 404	L STRUT AFT	OUTBOARD LEADING EDGE BLOWOUT ACCESS DOOR, 521AB
6	21, 24	M270	element [29]	Figure 405	WHEEL WELL	LANDING GEAR DOWN

SUBTASK 26-18-02-010-002

- (3) Remove any airplane parts that are in the way (reference Table 401).

F. Long Sensor Element Removal

NOTE: This procedure only applies to the following sensors:

- element [15], M356, R FWD A/C PACK
- element [16], M370, L WING INBOARD
- element [16], M371, R WING INBOARD
- element [17], M268, L WING OUTBOARD
- element [17], M269, R WING OUTBOARD
- element [19], M276, AFT - SECTION 48
- element [20], M275, AFT - SECTION 47
- element [21], M347, AFT - SECTION 46
- element [22], M1147, AFT - SECTION 46
- element [23], M348, AFT - SECTION 46
- element [24], M273, AFT KEELBEAM
- element [25], M272, FWD KEELBEAM
- element [28], M355, L FWD A/C PACK
- element [29], M270, WHEEL WELL

EFFECTIVITY
AKS ALL

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SUBTASK 26-18-02-020-001

CAUTION: WHEN YOU INSTALL THE ELEMENT, DO NOT BEND THE ELEMENT TO A RADIUS THAT IS LESS THAN ONE INCH. IF THE BEND RADIUS IS LESS THAN ONE INCH, DAMAGE TO THE ELEMENT CAN OCCUR.

- (1) Loosen all the mounting clips [4] that hold the element in its position.

SUBTASK 26-18-02-020-002

- (2) Remove the element from all the mounting clips [4].
- (3) Remove the grommet [5] from the element.

NOTE: Keep the grommet to reuse during installation procedure.

SUBTASK 26-18-02-030-001

- (4) Do these steps for sensor elements on the wing and lower aft body:
 - (a) Remove the lockwire [1] (MS20995CY20 lockwire, G02479) from the connector [3].
 - (b) Disconnect the connector [3].
 - (c) Put covers on the open end of the connectors [3] with caps to prevent damage.
- (5) Do these steps for sensor elements in the main wheel well:
 - (a) Remove the nut [8], two washers [9], and bolt [11] from the terminal lug [10].
 - (b) Remove the lockwire [1] (MS20995CY20 lockwire, G02479) from the jamnut [2].
 - (c) Loosen the jamnut [2].
 - (d) Put covers on the open end of the connector [3] with caps to prevent damage.

SUBTASK 26-18-02-020-004

- (6) Hold the element carefully to keep it in its position and to prevent bends.

SUBTASK 26-18-02-030-002

- (7) Do these steps for sensor elements on the wing and lower aft body:
 - (a) Remove the lockwire [1] (MS20995CY20 lockwire, G02479) from the connector [3].
 - (b) Disconnect the connector [3].
 - (c) Put covers on the open end of the connector [3] with tape or caps to prevent damage.
- (8) Do these steps for sensor elements in the main wheel well:
 - (a) Remove the nut [8], two washers [9], and bolt [11] from the terminal lug [10].
 - (b) Remove the lockwire [1] (MS20995CY20 lockwire, G02479) from the jamnut [2].
 - (c) Loosen the jamnut [2].
 - (d) Put covers on the open end of the connector [3] with tape or caps to prevent damage.

SUBTASK 26-18-02-020-006

- (9) Do these steps for sensor elements on the aft keel beam:
 - (a) Tie a cord to the forward end of the element. Make sure the cord is longer than the element.
 - (b) Slowly pull the element aft through the keel beam. Use the access holes below the keel beam to help guide the element through the holes in the structure.
 - (c) Remove the element from the cord and leave the cord in its position inside the keel beam.

SUBTASK 26-18-02-550-001

- (10) Carefully roll the element into a 6 in. (15.2 cm) diameter coil. Use tape if it is necessary.

EFFECTIVITY	AKS ALL
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26-18-02



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

G. Looped Sensor Removal

NOTE: This procedure only applies to the following sensors:

- element [13], M1912, R AFT A/C PACK
- element [14], M1910, R MID A/C PACK
- element [18], M1763, R FWD STRUT
- element [18], M1761, L STRUT FWD
- element [18], M1762, L STRUT AFT
- element [18], M1764, R AFT STRUT
- element [26], M1911, L AFT A/C PACK
- element [27], M1909, L MID A/C PACK

SUBTASK 26-18-02-020-007

CAUTION: WHEN YOU INSTALL THE ELEMENT, DO NOT BEND THE ELEMENT TO A RADIUS THAT IS LESS THAN ONE INCH. IF THE BEND RADIUS IS LESS THAN ONE INCH, DAMAGE TO THE ELEMENT CAN OCCUR.

- (1) Remove the nut [8], two washers [9], and bolt [11] securing each lead to the terminal lug [10].

SUBTASK 26-18-02-020-013

- (2) Do this to remove the element from the mounting clips [4].
 - (a) Loosen the bolt [6] securing the mounting clip [4], and remove the element.
 - (b) Remove the grommet [5] from the element.

NOTE: Keep the grommet to reuse during installation procedure.

SUBTASK 26-18-02-020-009

- (3) Remove the lockwire [1] (MS20995CY20 lockwire, G02479) from the jambnuts [2] (Do this task: Lockwire, Cotter Pins, and Lockrings - Removal, TASK 20-10-44-000-801).
- (4) Remove the jambnut [2] securing each connector [3] to the bracket [12].

SUBTASK 26-18-02-020-010

- (5) Remove the element from the bracket [12].

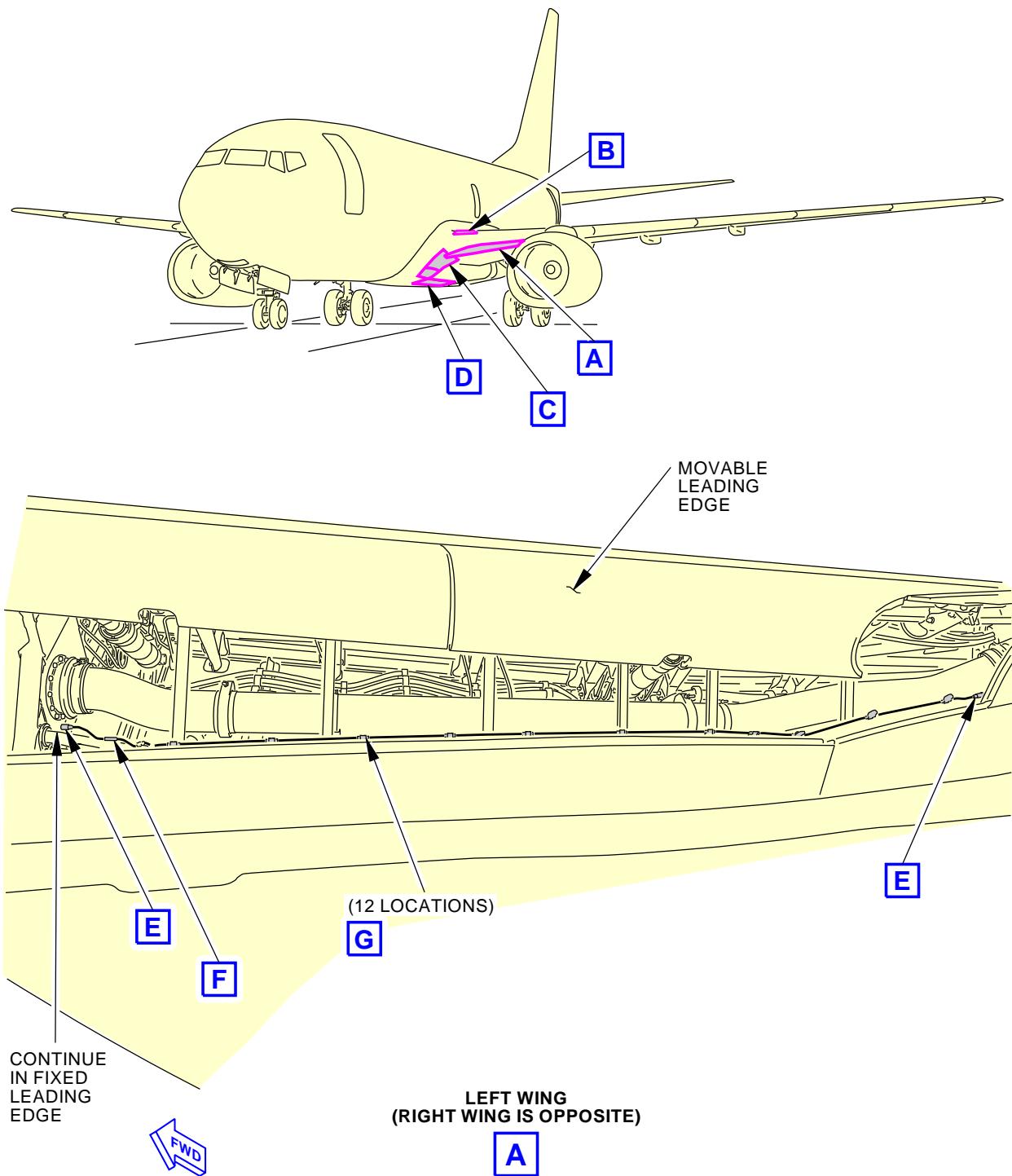
———— END OF TASK ————



26-18-02



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



F42426 S0006568215_V2

Wing and Lower Aft Body Overheat Detectors Installation
Figure 401/26-18-02-990-801 (Sheet 1 of 4)

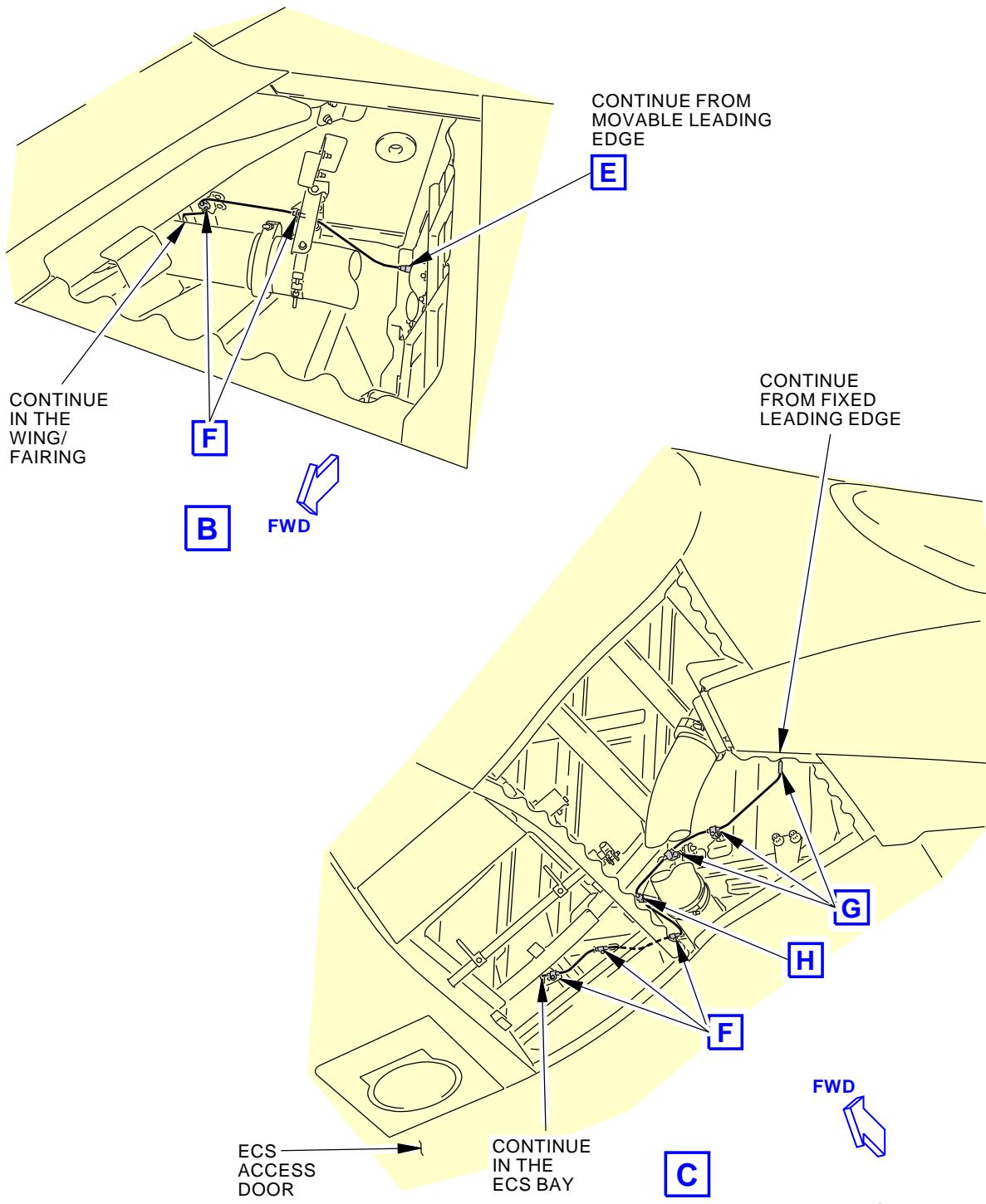
EFFECTIVITY	AKS ALL
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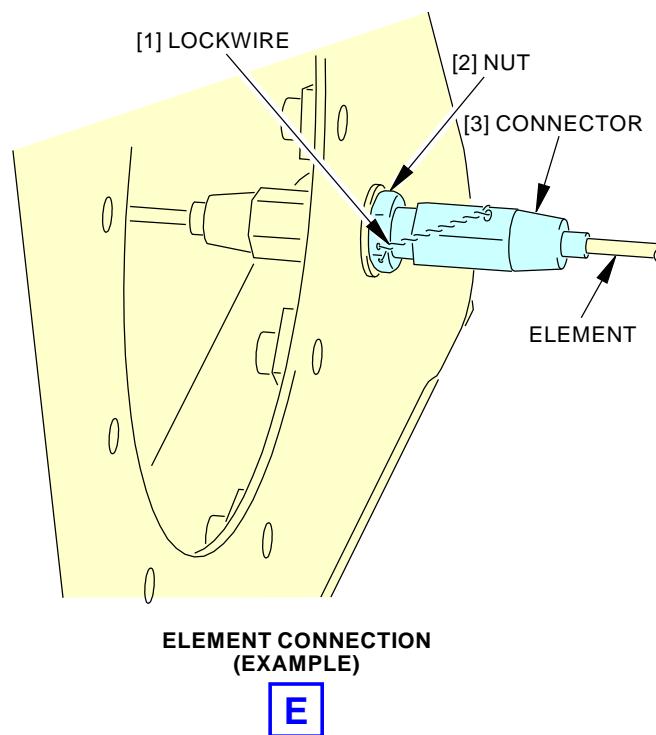
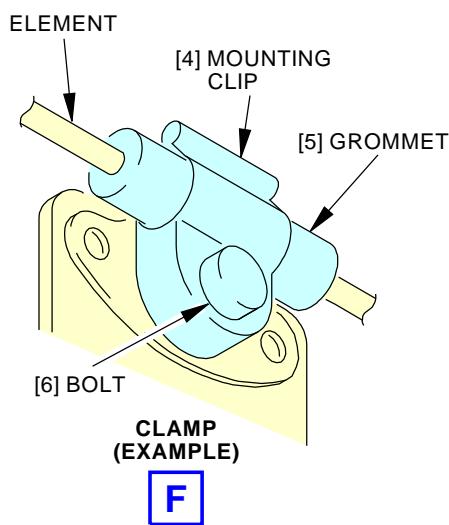
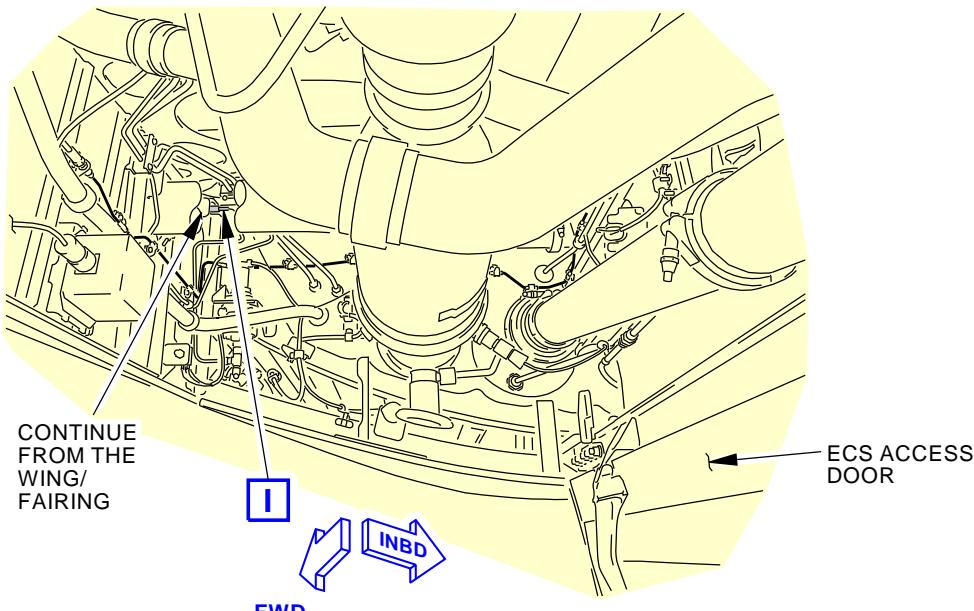
F50921 S0006568216_V2

Wing and Lower Aft Body Overheat Detectors Installation
Figure 401/26-18-02-990-801 (Sheet 2 of 4)

EFFECTIVITY
AKS ALL

26-18-02

D633A101-AKS



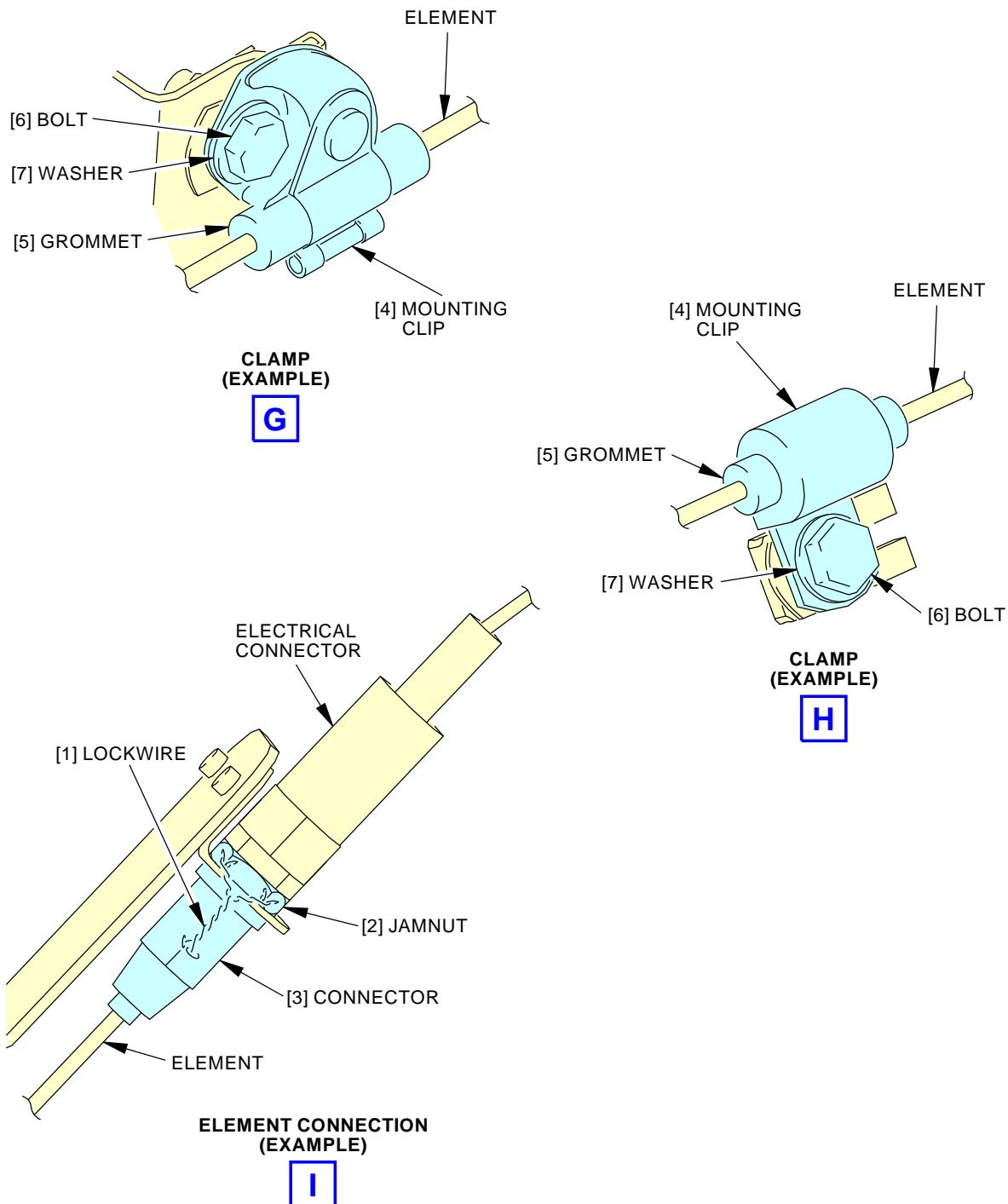
F52279 S0006568217_V4

Wing and Lower Aft Body Overheat Detectors Installation
Figure 401/26-18-02-990-801 (Sheet 3 of 4)

EFFECTIVITY
AKS ALL

26-18-02

D633A101-AKS



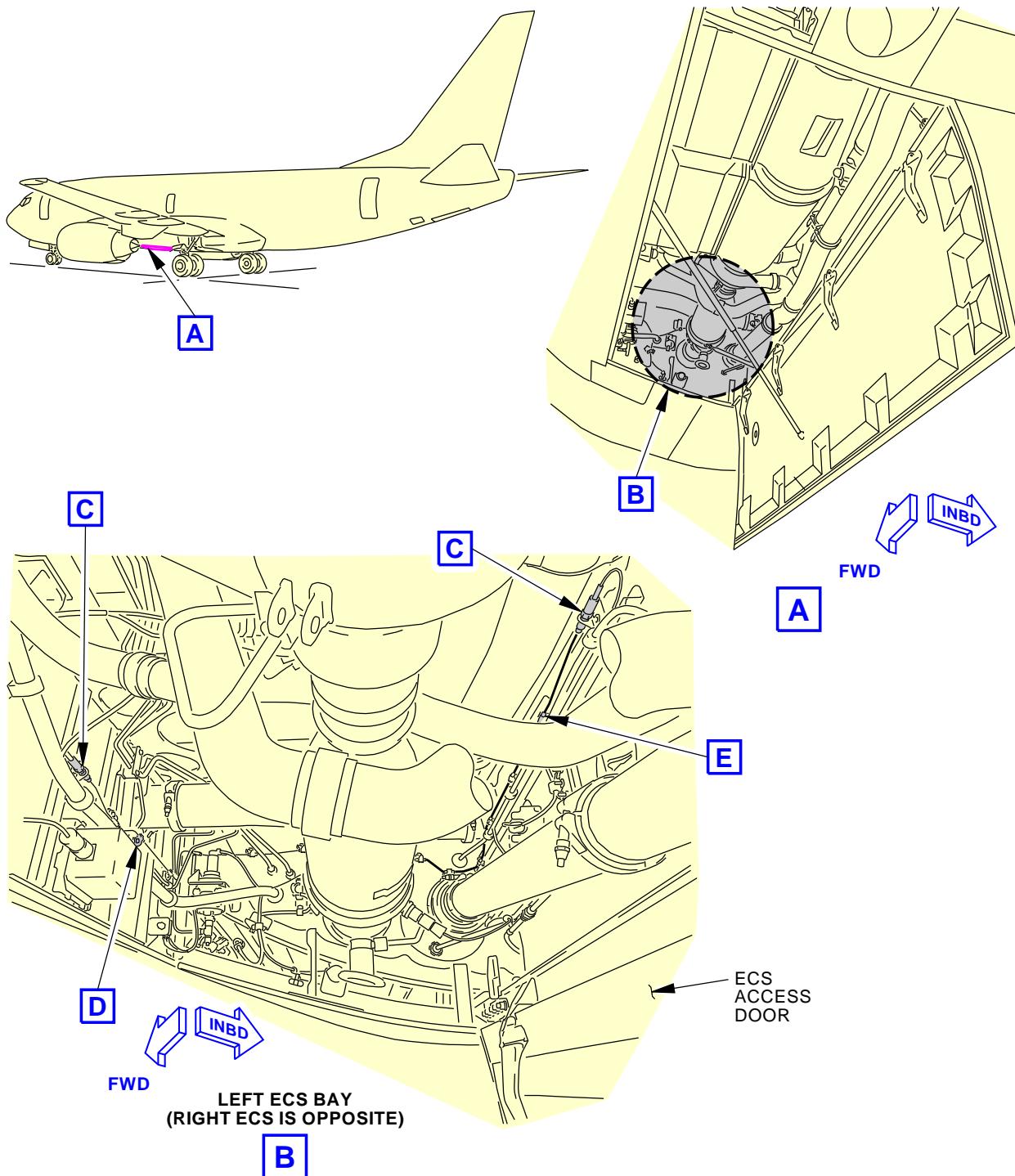
F50874 S0006568218_V4

Wing and Lower Aft Body Overheat Detectors Installation
Figure 401/26-18-02-990-801 (Sheet 4 of 4)

EFFECTIVITY
AKS ALL

26-18-02

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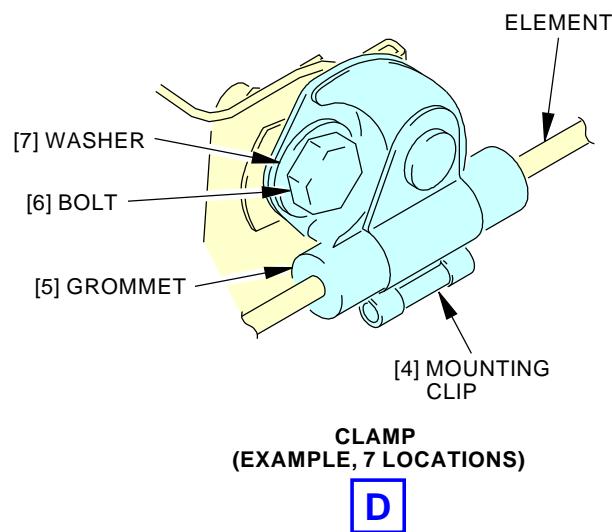
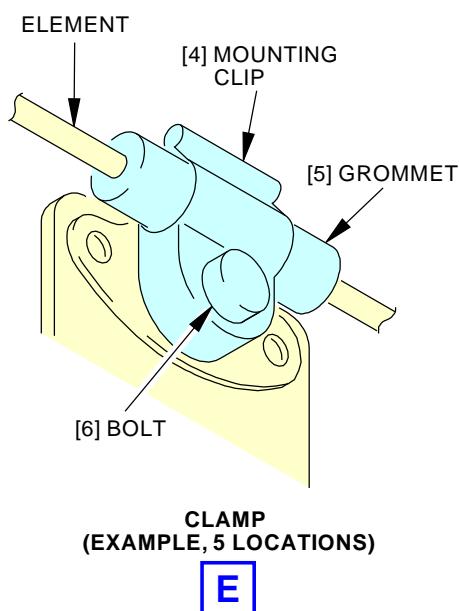
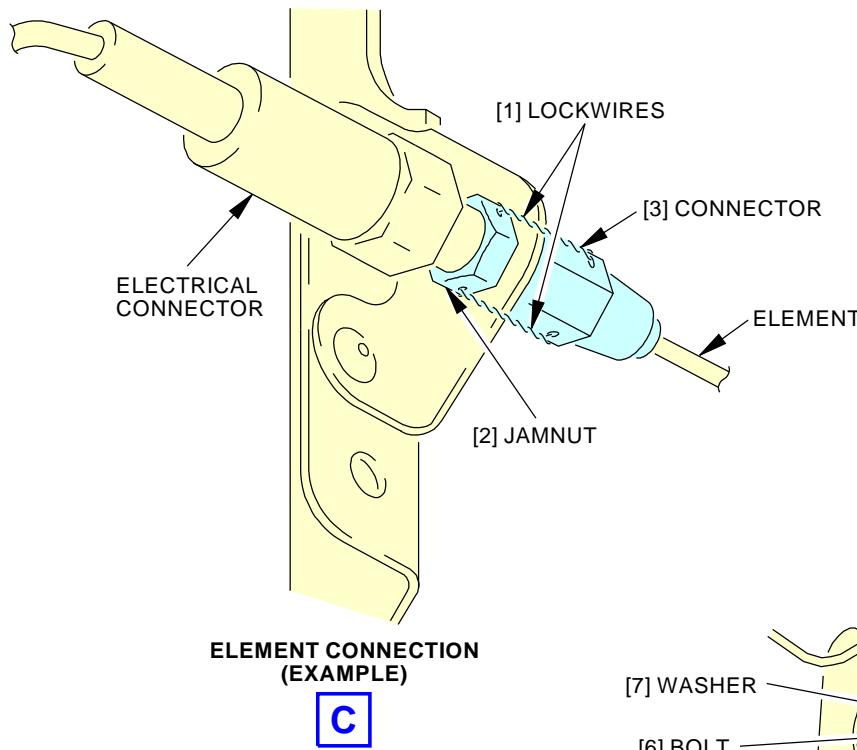


F48917 S0006568219_V2

**A/C Pack Overheat Detectors Installation
Figure 402/26-18-02-990-802 (Sheet 1 of 2)**

EFFECTIVITY
AKS ALL

26-18-02



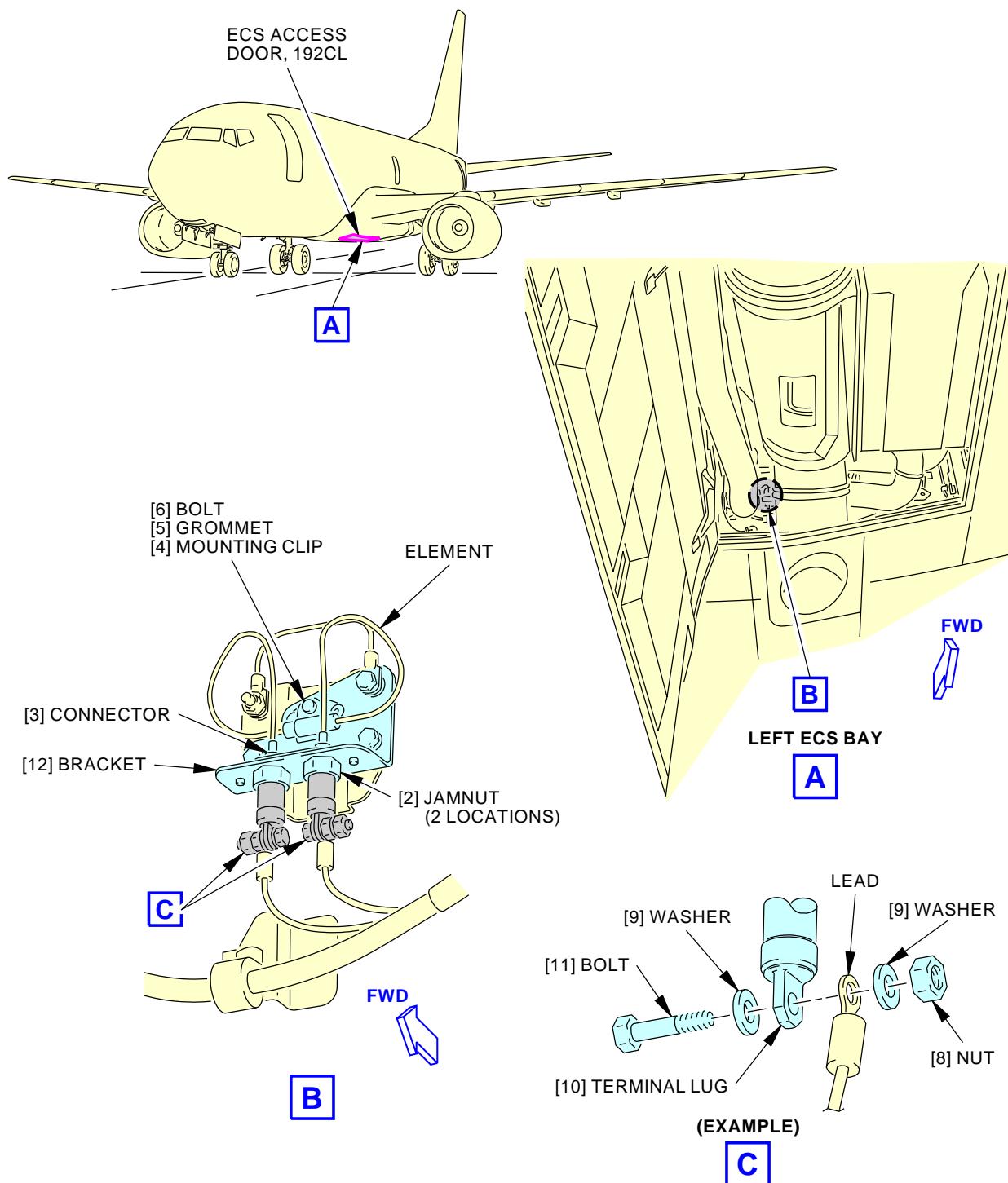
F50834 S0006568220_V3

A/C Pack Overheat Detectors Installation
Figure 402/26-18-02-990-802 (Sheet 2 of 2)

 EFFECTIVITY
 AKS ALL

26-18-02

D633A101-AKS

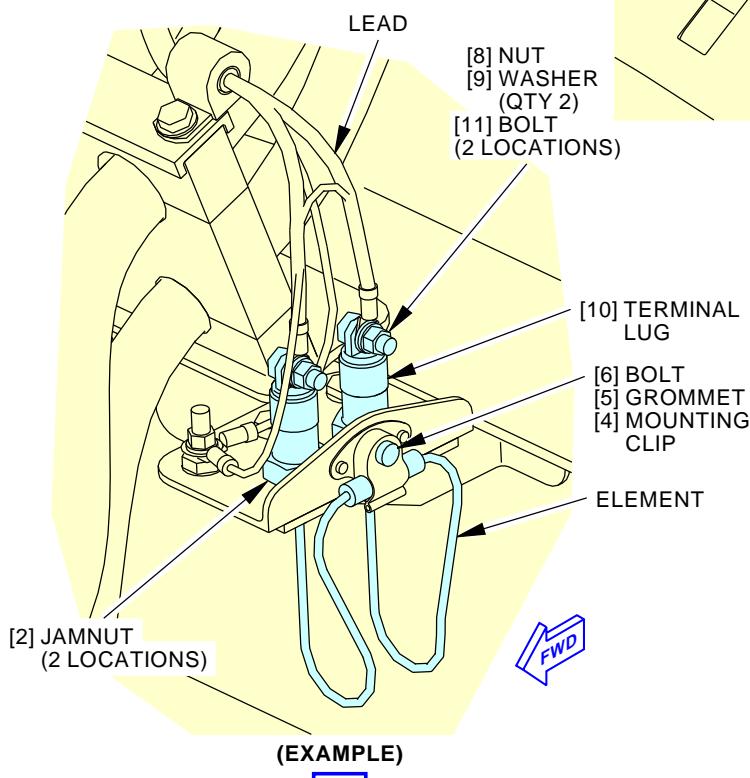
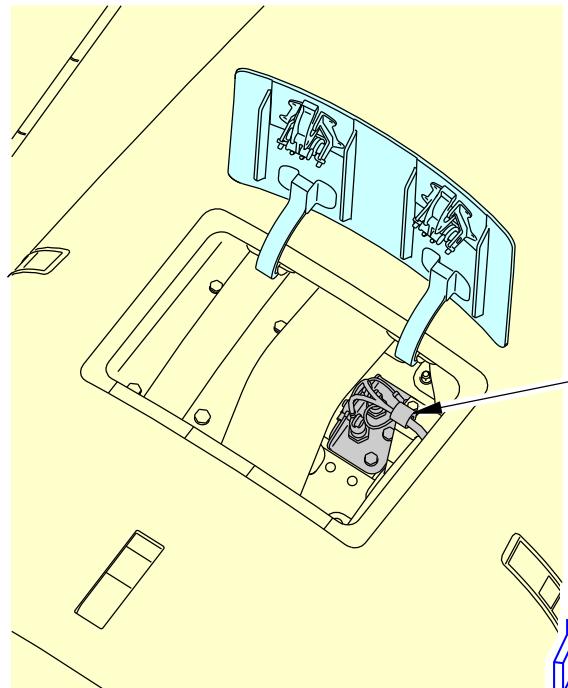
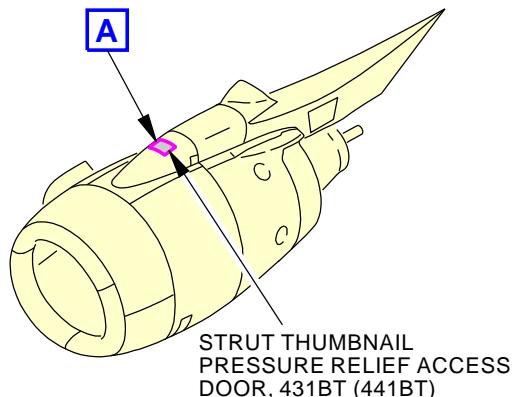


F52954 S0006568221_V6

Mid and Aft A/C Pack Overheat Detectors Installation
Figure 403/26-18-02-990-803

EFFECTIVITY
 AKS ALL

26-18-02

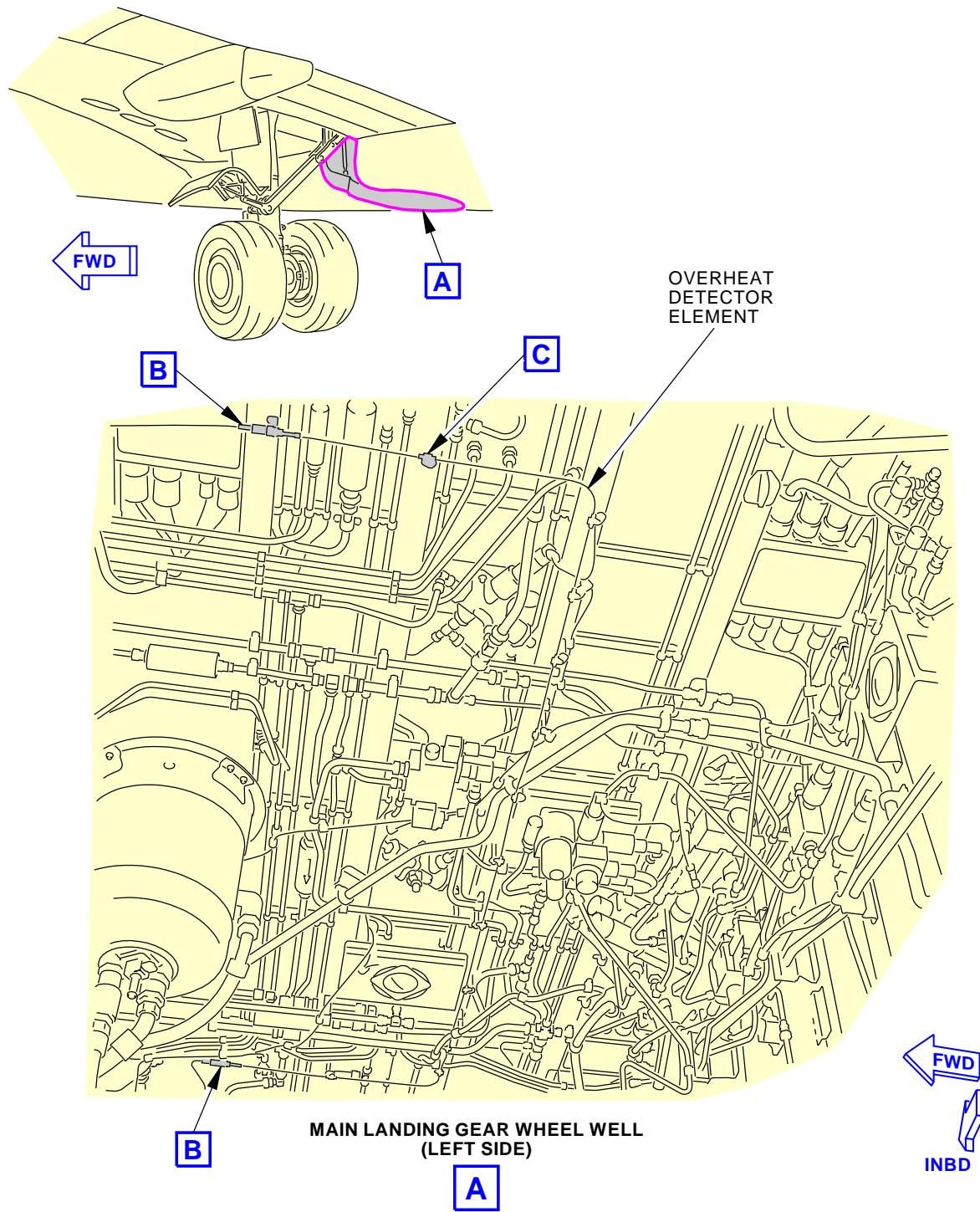


2419654 S0000558986_V1

Strut Overheat Detectors Installation
Figure 404/26-18-02-990-804

EFFECTIVITY
AKS ALL

26-18-02



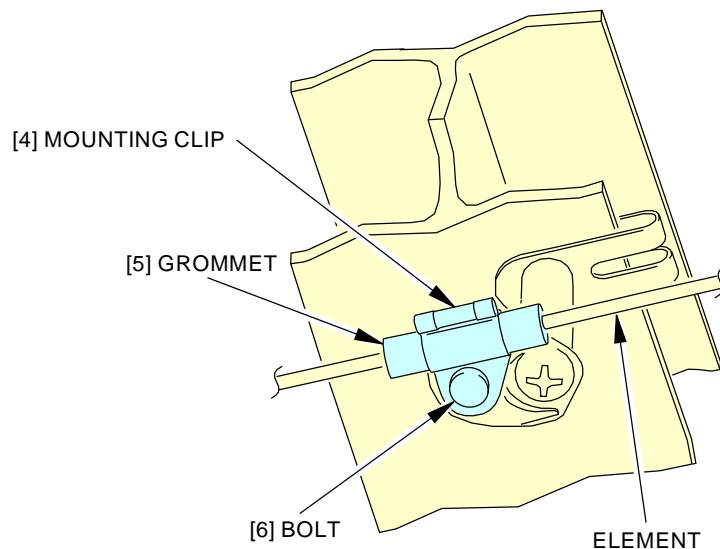
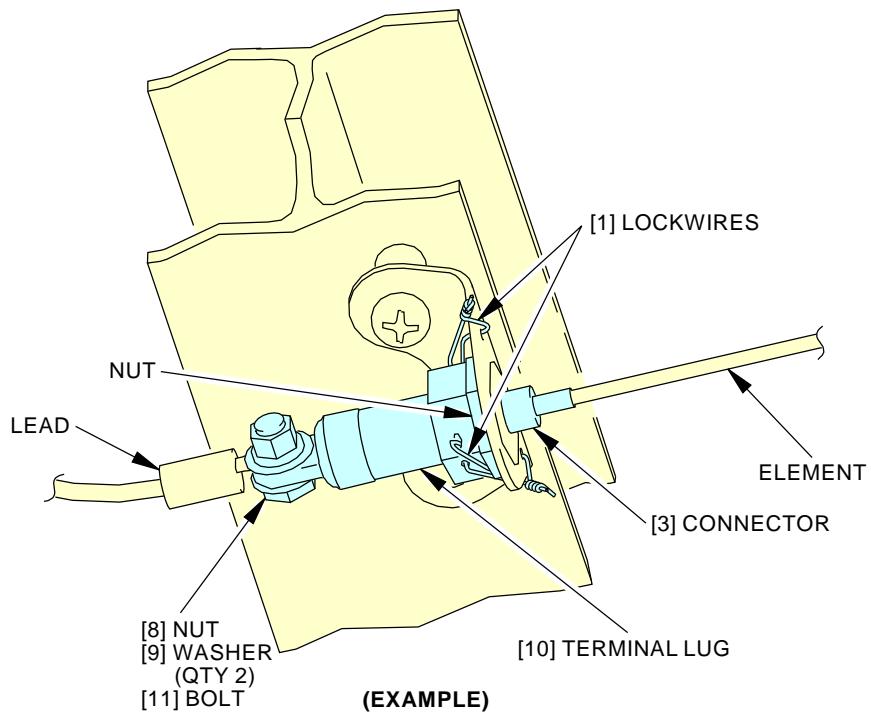
G64963 S0006568223_V4

Wheel Well Overheat Detection Sensing Element Installation
Figure 405/26-18-02-990-806 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL**26-18-02**

D633A101-AKS

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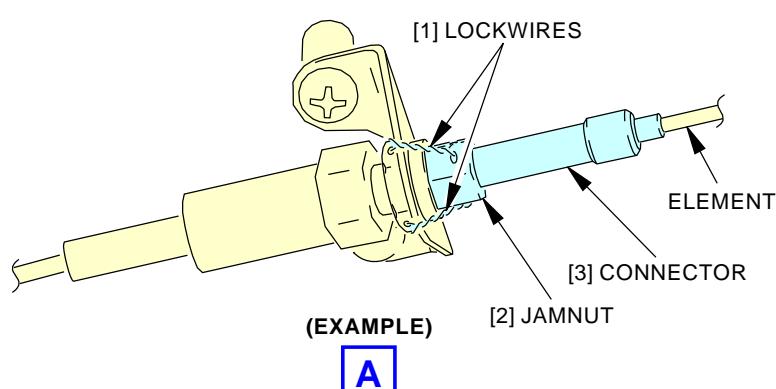
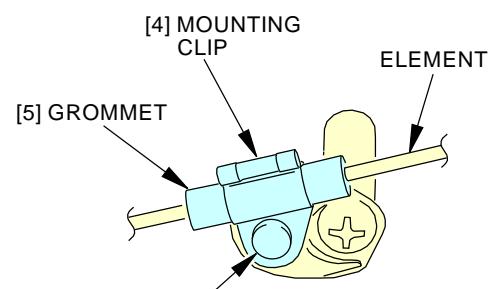
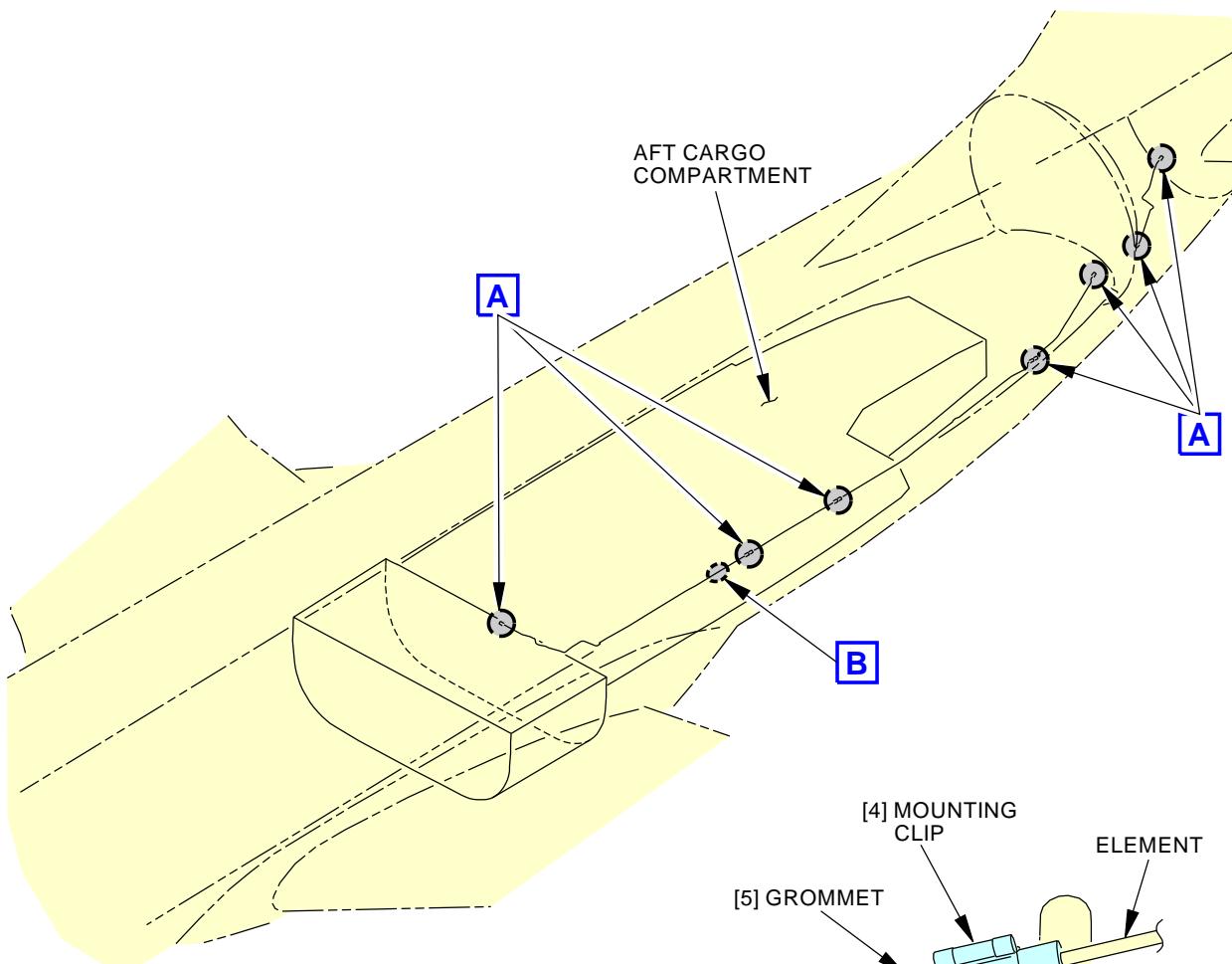
U34037 S0000192976_V4

Wheel Well Overheat Detection Sensing Element Installation
Figure 405/26-18-02-990-806 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL; AIRPLANES WITH MAIN WHEEL WELL
CORROSION PROTECTION

26-18-02

D633A101-AKS

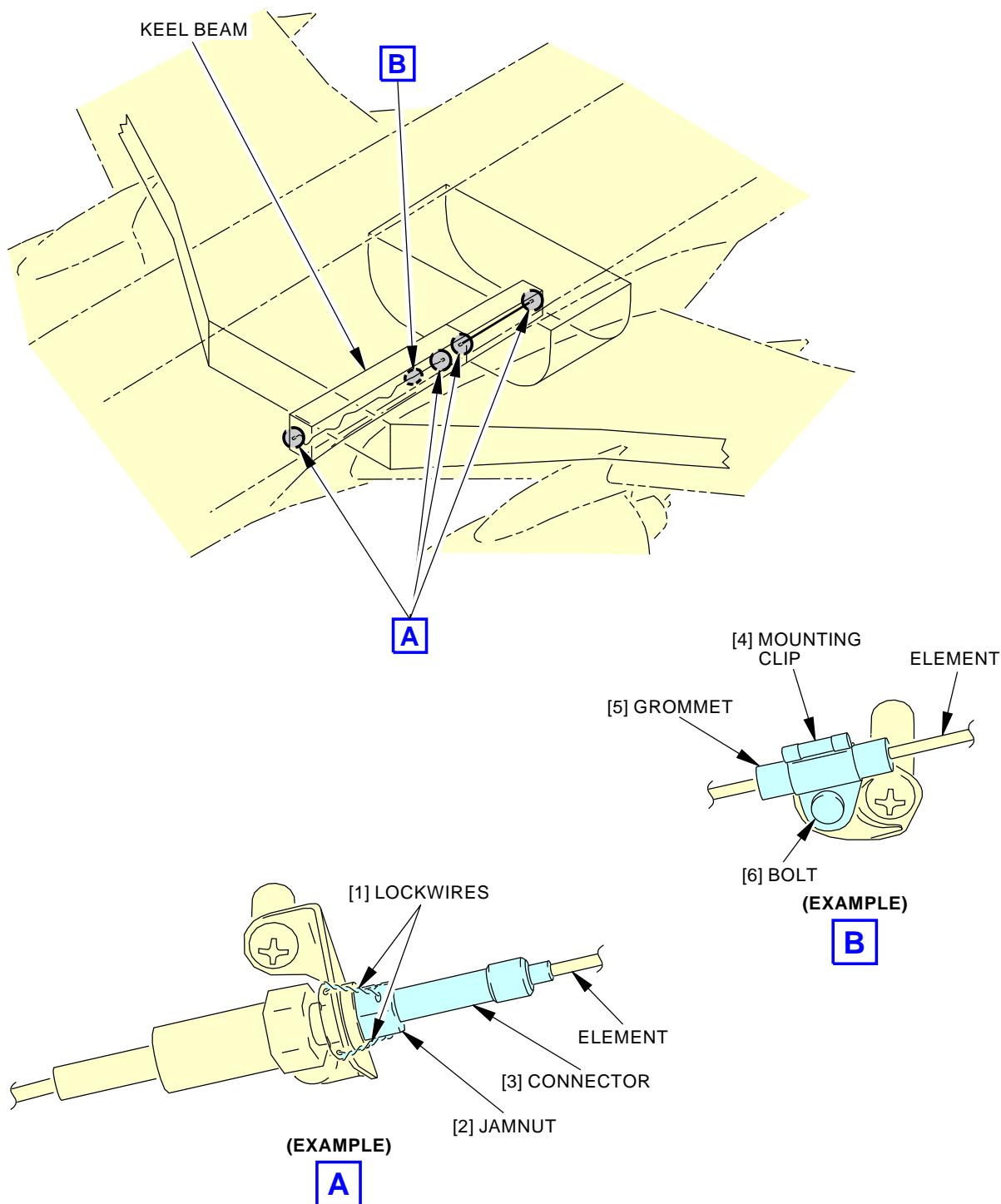


H06997 S0006568225_V4

Aft Cargo Overheat Detectors Installation
Figure 406/26-18-02-990-807

 EFFECTIVITY
 AKS ALL

26-18-02



H10120 S0006568226_V4

Keel Beam Overheat Detectors Installation
Figure 407/26-18-02-990-808

 EFFECTIVITY
 AKS ALL

26-18-02

D633A101-AKS



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TASK 26-18-02-400-801

3. Wheel Well, Wing and Lower Aft Body Overheat Sensor Element Installation

(Figure 401, Figure 402, Figure 403, Figure 404, Figure 405, Figure 406, Figure 407)

A. General

- (1) This task gives instructions to install the Wheel Well, Wing and Lower Aft Body Overheat Sensor Element.

B. References

Reference	Title
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
26-18-00-710-801	Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test (P/B 501)
SWPM 20-20-00	Electrical Bonding Processes

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meters - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

D. Consumable Materials

Reference	Description	Specification
A00230	Compound - Electrical Insulating Coating	BMS5-37
B00130	Alcohol - Isopropyl	TT-I-735
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G50470	Compound - Electrical Insulating (Dow Corning 4)	SAE AS8660 (Supercedes MIL-S-8660)

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
13	Element	26-18-01-03A-050	AKS ALL
14	Element	26-18-01-05-050	AKS ALL
15	Element	26-18-02-13A-045	AKS ALL
16	Element	26-18-51-01A-055	AKS ALL
17	Element	26-18-02-10B-045	AKS ALL
18	Element	26-18-01-04-060	AKS ALL
		26-18-02-16-070	AKS ALL
19	Element	26-18-01-09A-025	AKS ALL
		26-18-02-09A-025	AKS ALL

EFFECTIVITY
AKS ALL

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
20	Element	26-18-02-01-010	AKS ALL
21	Element	26-18-02-01-015	AKS ALL
22	Element	26-18-02-03A-070	AKS ALL
23	Element	26-18-02-03A-075	AKS ALL
24	Element	26-18-02-09A-025	AKS ALL
25	Element	26-18-02-07A-030	AKS ALL
26	Element	26-18-01-03A-050	AKS ALL
27	Element	26-18-01-05-050	AKS ALL
28	Element	26-18-02-13-045	AKS ALL
29	Element	26-18-02-11B-125	AKS ALL

F. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right
413	Engine 1 - Fan Cowl, Left
423	Engine 2 - Fan Cowl, Left

G. Prepare for the Installation

SUBTASK 26-18-02-860-002

- (1) Make sure that this circuit breaker is open and has safety tag:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

SUBTASK 26-18-02-010-003

- (2) Make sure the applicable access doors and panels are open as shown in Table 401, Wheel Well, Wing and Lower Aft Body Overheat Sensor Element Removal, TASK 26-18-02-000-801.

SUBTASK 26-18-02-010-004

- (3) Make sure you remove the airplane parts that are in the way as shown in Table 401, Wheel Well, Wing and Lower Aft Body Overheat Sensor Element Removal, TASK 26-18-02-000-801.

H. Long Sensor Element Installation

NOTE: This procedure only applies to the following sensors:

- element [15], M356, R FWD A/C PACK
- element [16], M370, L WING INBOARD
- element [16], M371, R WING INBOARD
- element [17], M268, L WING OUTBOARD
- element [17], M269, R WING OUTBOARD
- element [19], M276, AFT - SECTION 48
- element [20], M275, AFT - SECTION 47
- element [21], M347, AFT - SECTION 46

EFFECTIVITY
AKS ALL

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- element [22], M1147, AFT - SECTION 46
- element [23], M348, AFT - SECTION 46
- element [24], M273, AFT KEELBEAM
- element [25], M272, FWD KEELBEAM
- element [28], M355, L FWD A/C PACK
- element [29], M270, WHEEL WELL

SUBTASK 26-18-02-420-001

CAUTION: WHEN YOU INSTALL THE ELEMENT, DO NOT BEND THE ELEMENT TO A RADIUS THAT IS LESS THAN ONE INCH. IF THE BEND RADIUS IS LESS THAN ONE INCH, DAMAGE TO THE ELEMENT CAN OCCUR.

CAUTION: DO NOT TURN, PULL, OR ATTACH THE SENSOR ELEMENT WITH A CLAMP. DO NOT MAKE SERVICEABLE KINKS, BENDS, OR DENTS STRAIGHT. IF YOU MAKE SERVICEABLE KINKS, BENDS, OR DENTS STRAIGHT, DAMAGE CAN OCCUR.

- (1) Carefully put the element into position.

NOTE: This step will require two people.

- (a) Carefully unwind the element and make sure there are no kinks.
- (b) Carefully bend the element to fit into its approximate position.
- (c) Carefully put and hold the element in its position.
- (d) Do these steps for sensor elements on the aft keel beam:
 - 1) Tie the existing cord to the aft end of the new element.
 - 2) Slowly pull the forward through the keel beam. Use the access holes below the keel beam to help guide the element through the holes in the structure.
 - 3) Remove the cord from the element.

SUBTASK 26-18-02-420-011

- (2) Put the element into each of the mounting clips [4].

- (a) Install the grommet [5] around the element so that each grommet [5] is in the center of the mounting clip [4].
 - (b) Install the grommets [5] into the mounting clips [4] so that the slit is facing outside of the nearest bend.
 - 1) Make sure that the mounting clips [4] and grommets [5] are attached to the element tightly.
- NOTE: If the used sensor element is in its position as a reference, remove it.
- (c) Locate element in approximate installation position and temporarily support as necessary to maintain position.
 - (d) Make sure the minimum clearance between the element and structure is 0.50 in. (12.70 mm) except at mounting clips [4].

SUBTASK 26-18-02-420-002

- (3) Remove the caps from the end fittings and connect the connectors [3].

SUBTASK 26-18-02-420-012

- (4) Examine the connector [3] at each end of the heat detector for corrosion.
 - (a) If corrosion is present, replace the element.
- (5) Make sure that the connectors [3] have ceramic inserts on both ends.

EFFECTIVITY	AKS ALL
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- (6) Make sure the pins on the connectors [3] are centered, not bent, recessed, or damaged.

SUBTASK 26-18-02-100-002

- (7) Clean the mating surfaces of the connector [3], element, and structure (SWPM 20-20-00).
(a) Use a cotton wiper, G00034, made moist with alcohol, B00130.
(b) Immediately dry the surfaces with a new cotton wiper.

SUBTASK 26-18-02-390-001

- (8) Apply Compound, G50470 to the internal components of the connectors [3] and the ends of the element.

SUBTASK 26-18-02-420-003

- (9) Do this to attach the connector [3].

- (a) Tighten the jambnuts [2] on the end fittings from 50 in-lb (5.6 N·m) to 60 in-lb (6.8 N·m).
(b) Install a lockwire [1] on the connector [3] as follows:

NOTE: Lockwire diameter must fill between 1/3 and 3/4 of the hole diameter, 0.032 inch diameter minimum except for lockwire 0.020 inch in diameter can be used if the lockwire hole is 0.045 inch diameter or smaller OR the spacing between parts is less than 2 inches and the lockwire hole diameter is between 0.045 and 0.062 inch diameter.

- 1) To obtain adequate tension without overstressing the lockwire [1], apply the number of twists per inch of lockwire as in Table 402

Table 402/26-18-02-993-809 TWISTS PER INCH

RANGE OF WIRE DIAMETERS (IN)	LESS THAN 0.019	0.019 TO 0.026	0.027 TO 0.042	0.043 TO 0.065	MORE THAN 0.065
Twists per inch	11 to 14	9 to 12	7 to 10	5 to 8	4 to 7

SUBTASK 26-18-02-420-019

- (10) Do these steps for sensing elements in the main wheel well:
(a) Attach the terminal lug [10] with the nut [8], two washers [9], and bolt [11].
(b) Tighten the bolt [11] to the specified torque: 25 in-lb (2.8 N·m) to 35 in-lb (4.0 N·m).

SUBTASK 26-18-02-860-004

- (11) Repeat the above steps for the other connector [3] and element.

I. Looped Sensor Installation

NOTE: This procedure only applies to the following sensors:

element [13], M1912, R AFT A/C PACK
element [14], M1910, R MID A/C PACK
element [18], M1763, R FWD STRUT
element [18], M1761, L STRUT FWD
element [18], M1762, L STRUT AFT
element [18], M1764, R AFT STRUT
element [26], M1911, L AFT A/C PACK
element [27], M1909, L MID A/C PACK

SUBTASK 26-18-02-100-001

- (1) Clean the mating surfaces of the bracket [12] and element (SWPM 20-20-00).

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- (a) Use a cotton wiper, G00034, made moist with alcohol, B00130.
- (b) Immediately dry the surfaces with a new cotton wiper.

SUBTASK 26-18-02-420-005

- (2) Position the element in the bracket [12] and mounting clip [4].

SUBTASK 26-18-02-420-006

- (3) Secure each terminal lug [10] with jammnut [2].
 - (a) Do this for sensor elements in the mid & aft A/C area:
Tighten each nut 80 in-lb (9.0 N·m) to 100 in-lb (11.3 N·m).
 - (b) Do this for sensor elements on the engine strut:
Tighten each nut 50 in-lb (5.6 N·m) to 60 in-lb (6.8 N·m).
 - (c) Install lockwire [1] on the jammnuts [2], do this task: Lockwire, Cotter Pins, and Lockrings - Installation, TASK 20-10-44-400-801.

SUBTASK 26-18-02-420-007

- (4) Install the element in the mounting clip [4].
 - (a) Install the grommet [5] on the element.
 - (b) Position the grommet [5] in the mounting clip [4].
 - (c) Tighten the bolt [6] to secure the mounting clip [4].

SUBTASK 26-18-02-420-008

- (5) Attach each terminal lug [10] with a bolt [11], washers [9], and nut [8].
 - (a) Tighten each nut [8].

SUBTASK 26-18-02-914-001

- (6) Apply compound, A00230 to the terminal of the overheat loop sensor.

J. Wheel Well, Wing and Lower Aft Body Overheat Sensor Element Installation Test

SUBTASK 26-18-02-860-003

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

SUBTASK 26-18-02-750-001

- (2) Use an intrinsically safe approved bonding meter, COM-1550, to make sure the electrical bond between the element connector shell and the primary structure is less than 0.005 ohm.

SUBTASK 26-18-02-420-010

- (3) Do this task: Wheel Well, Wing and Lower Aft Body Overheat Detection System - Operational Test, TASK 26-18-00-710-801.

K. Put the Airplane Back to Its Usual Condition

SUBTASK 26-18-02-410-001

- (1) Install any airplane parts that were removed, Table 401, Wheel Well, Wing and Lower Aft Body Overheat Sensor Element Removal, TASK 26-18-02-000-801.

SUBTASK 26-18-02-410-002

- (2) Close the applicable access doors and panels, Table 401, Wheel Well, Wing and Lower Aft Body Overheat Sensor Element Removal, TASK 26-18-02-000-801.

———— END OF TASK ——

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WING, WHEEL WELL, AND LOWER AFT BODY OVERHEAT DETECTION SENSING ELEMENT -
ADJUSTMENT/TEST

1. General

- A. This procedure contains the test of the sensing elements for the wing, wheel well and lower aft body overheating detection system.
- B. Use a wire and fitting between the element and fitting and the test equipment. Attach the test leads to the center contacts or the center contact and the outer shell of the wire end fittings, as applicable. Use the wire end fittings to decrease the possibility of damage to the electrical contact surface and supply a positive attach point for the test equipment. Be careful during the test so that no dirt or other contamination gets on the end fittings. Reconnect the electrical connector or replace the protective caps when you complete the tests.

TASK 26-18-02-720-803

2. Wing, Wheel Well and Lower Aft Body Overheat Sensing Element Test

A. General

- (1) Do a test of each sensing loop only when all of the units in the system are stable at ambient temperature. If you cannot complete the tests that follow on an element, replace the element.

B. References

Reference	Title
24-22-00-860-813	Supply External Power (P/B 201)
24-22-00-860-815	Supply APU Generator Power (P/B 201)
36-11-00 P/B 501	ENGINE BLEED AIR DISTRIBUTION SYSTEM - ADJUSTMENT/TEST

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1741	Meter - LCR (Inductance, Capacitance, Resistance) Part #: 875B Supplier: 08098 Part #: 878B Supplier: 08098 Part #: 879B Supplier: 08098 Opt Part #: 878A Supplier: 08098 Opt Part #: 879 Supplier: 08098
SPL-12922	Extender Box - Compartment Overheat Detection Module/M237, C26007-3 (part of C26007-1 Kit) Opt Part #: C26007-1 Supplier: 81205
SPL-14827	Extender Box - Compartment Overheat Detection Module/M237, C26007-73 (part of the C26007-72 kit) Part #: C26007-72 Supplier: 81205

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
413	Engine 1 - Fan Cowl, Left

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(Continued)

Zone Area

423 Engine 2 - Fan Cowl, Left

E. Sensing Element Test (Voltage Measurement)

SUBTASK 26-18-02-480-001

- (1) Put the overheat detection module extender box, SPL-12922 or overheat detection module extender box, SPL-14827, in place of the M237 (Figure 501).
 - (a) Adjust the forks, on the E/E rack, by rotating the shaft to a position where the forks start to exert pressure on the locking lever.
 - 1) Make sure the lever is in vertical position when locked and the electrical connector is getting proper contact.
 - 2) Make sure the plug on the rear of the overheat detection module extender box, SPL-12922 or overheat detection module extender box, SPL-14827 is fully engaged with the receptacle on the airplane.

SUBTASK 26-18-02-760-001

- (2) Make sure the power to the buses is ON (Supply External Power, TASK 24-22-00-860-813 or Supply APU Generator Power, TASK 24-22-00-860-815)

SUBTASK 26-18-02-860-007

- (3) Make sure No Bleed or PACK is running (ENGINE BLEED AIR DISTRIBUTION SYSTEM - ADJUSTMENT/TEST, PAGEBLOCK 36-11-00/501)

SUBTASK 26-18-02-700-001

- (4) Turn the dial on the overheat detection module extender box, SPL-12922 or overheat detection module extender box, SPL-14827 to each position and read the voltage.
 - (a) Make sure each voltage reading is \geq 4.1 Volts for Boeing Part No. 10-62187-1 or \geq 5.1 Volts for Boeing Part No. 10-62187-2.

NOTE: The test is successful if all of the voltage readings are \geq 4.1 Volts or \geq 5.1 Volts.

SUBTASK 26-18-02-080-001

- (5) Remove the overheat detection module extender box, SPL-12922 or overheat detection module extender box, SPL-14827 and install the M237 LRU back into the E/E rack.
- (6) Readjust the forks when installing the M237.

NOTE: The unique adjustment is required for both the overheat detection module extender box, SPL-12922 or overheat detection module extender box, SPL-14827, and the M237 LRU.

F. Sensing Element Continuity Test (Resistance Measurement)

SUBTASK 26-18-02-865-005

- (1) Disconnect the connectors from the loop.

SUBTASK 26-18-02-865-006

- (2) Connect the LCR meter (Inductance, Capacitance, Resistance), COM-1741 to the center of the conductor at each end of the loop. This procedure does a test of center conductor continuity.

NOTE: A standard digital voltmeter can be used for the center conductor resistance.

- (a) Measure the center conductor resistance. Ref Table 501

NOTE: Conductance equals 1/Resistance.

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Table 501/26-18-02-993-806 Sensing Loop Test Data

FENWAL ALARM/FAULT CODES	LOOP CONNECTOR/PINS		LOOP CENTER CONDUCTOR RESISTANCE (< 130 ° F)	SENSORS
12 (zone 1, loop 1)	D742, pin 4	D742, pin 12	12 ohms max	M370, M268, M1761, M1762
22 (zone 2, loop 2)	D742, pin 2	D742, pin 8	6 ohms max	M1911, M1909, M355
32 (zone 3, loop 3)	D742, pin 9	D742, pin 29	6 ohms max	M272, M273
42 (zone 4, loop 4)	D742, pin 13	D742, pin 27	12 ohms max	M276, M275, M347, M1147, M348
62 (zone 6, loop 6)	D742, pin 10	D742, pin 11	12 ohms max	M1763, M1764, M269, M371, M356, M1910, M1912
N/A (wheel well, loop 8)	D742, pin 21	D742, pin 24	6 ohms max	M270

G. Sensing Element Pin to Case Test (Resistance Measurement)

SUBTASK 26-18-02-860-005

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

SUBTASK 26-18-02-720-002

- (2) Disconnect the connectors from both ends of the sensors.

SUBTASK 26-18-02-720-001

- (3) Connect the LCR meter (Inductance, Capacitance, Resistance), COM-1741 to the center of the conductor and to the sheath of the sensor tube.

NOTE: Do not use a digital multimeter (DMM) for resistance checks on individual sensors. The data below is for LCR only.

- (a) Measure the resistance from the center of the conductor to the case ground (outer side of the element). Set the LCR meter to either 120Hz (preferable) or 1KHz frequency setting. Reference Table 502

NOTE: Conductance equals 1/Resistance.

Table 502/26-18-02-993-807 Sensing Element Conductance and Resistance Center Conductor to Case Test Data

SENSOR	SENSOR PART NO.	MAXIMUM CONDUCTANCE, MICRO-SIEMENS ^[1]	MINIMUM RESISTANCE, (MEGOHMS) ^[1]	MAXIMUM CONTINUITY, (MILLIOHMS)
M371	35574-4-255	0.74	1.35	563.00
M370	35574-4-255	0.74	1.35	563.00
M356	35594-4-255	0.94	1.06	703.00
M355	35594-4-255	0.94	1.06	703.00
M348	35658-4-255	1.58	0.63	1151.00
M347	35646-2-255	1.46	0.68	1067.00

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Table 502/26-18-02-993-807 Sensing Element Conductance and Resistance Center Conductor to Case Test Data (Continued)

SENSOR	SENSOR PART NO.	MAXIMUM CONDUCTANCE, MICRO-SIEMENS ^{*[1]}	MINIMUM RESISTANCE, (MEGOHMS) ^{*[1]}	MAXIMUM CONTINUITY, (MILLIOHMS)
M276	35555-4-255	0.55	1.82	423.00
M275	35575-2-255	0.75	1.33	570.00
	35599-2-255	0.99	1.01	738.00
M273	35555-4-255	0.55	1.82	423.00
M272	35626-4-255	1.26	0.79	927.00
M270	04-90010-110D	1.10	0.91	660.00
	35610-4-400	1.10	0.909	815.00
	35614-4-400	1.14	0.877	843.00
M269	35599-2-255	0.99	1.01	738.00
M268	35599.-2-255	0.99	1.01	738.00
M1912	35712-80 (255)	1.20	0.833	885.00
M1911	35712-80 (255)	1.20	0.833	885.00
M1910	35712-80 (255)	1.20	0.833	885.00
M1909	35712-80 (255)	1.20	0.833	885.00
M1764	35712-75 (310)	2.24	0.417	820.00
	35712-79 (310)	0.60	1.67	820.00
M1763	35712-79 (310)	0.60	1.67	820.00
M1762	35712-75 (310)	2.24	0.417	820.00
	35712-79 (310)	0.60	1.67	820.00
M1761	35712-79 (310)	0.60	1.67	820.00
M1147	35675-2-255	1.75	0.57	1270.00
M1147	35560-2-255	0.60	1.67	465.00

*[1] from center conductor to ground

SUBTASK 26-18-02-720-003

- (4) Connect the connectors to the sensor elements.

SUBTASK 26-18-02-720-004

- (5) Tighten the jammnuts from 50 to 60 pound-inches.

SUBTASK 26-18-02-720-005

- (6) Attach the lockwires to the sensor element connectors.

SUBTASK 26-18-02-720-006

- (7) Repeat the sensing element continuity and sensing element pin to case test for each remaining loop.

H. Put the Airplane to its Normal Condition.

NOTE: Do the following only if the Resistance Measurement was performed.

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SUBTASK 26-18-02-720-007

- (1) Remove the wire and fittings from the loop connectors.

SUBTASK 26-18-02-720-009

- (2) Tighten the jammnuts 50 to 60 pound-inches.

SUBTASK 26-18-02-720-010

- (3) Attach the lockwire to the element connectors.

SUBTASK 26-18-02-860-006

- (4) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY

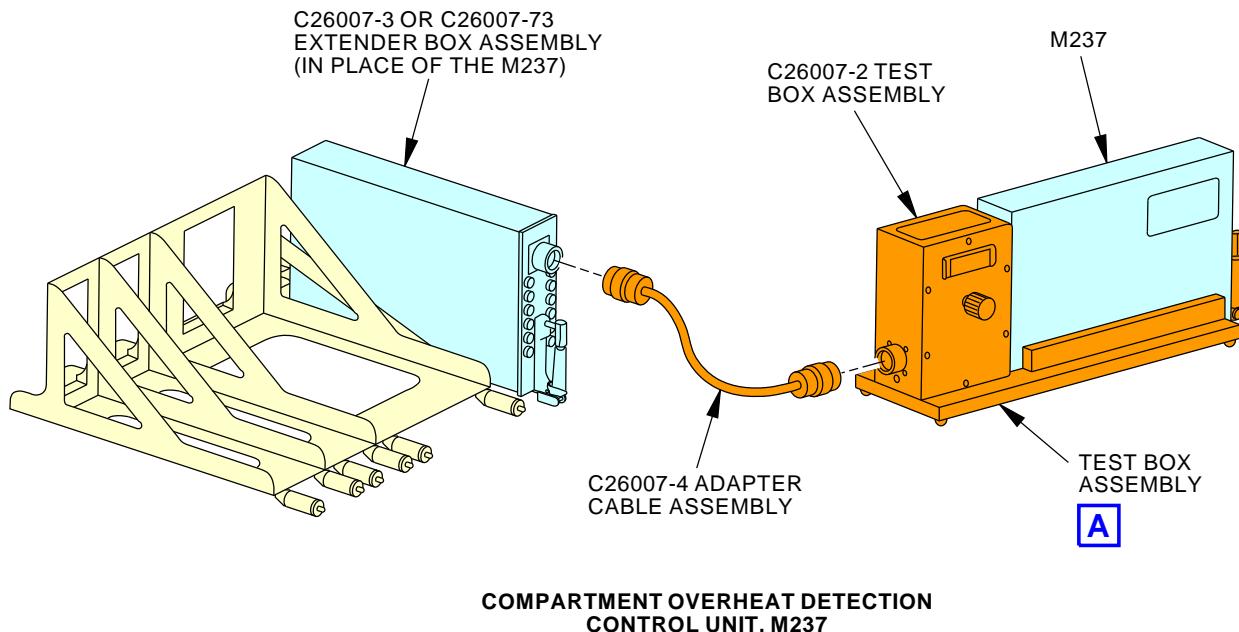
———— END OF TASK ————

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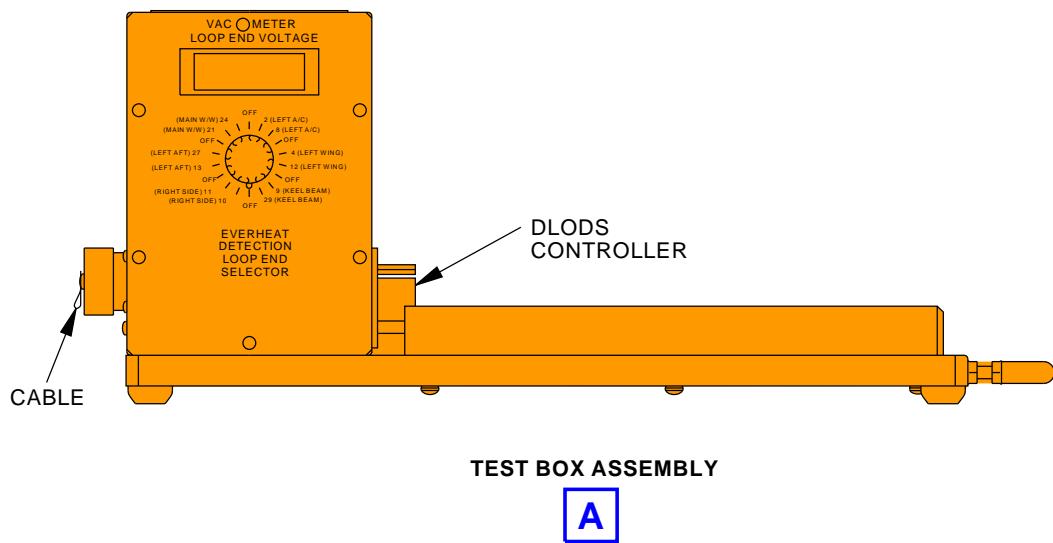
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COMPARTMENT OVERHEAT DETECTION
CONTROL UNIT, M237



TEST BOX ASSEMBLY

A

2222136 S0000496973_V3

C26007 Test Equipment
Figure 501/26-18-02-990-811

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FIRE EXTINGUISHING BOTTLE PRESSURE GAUGE - INSPECTION/CHECK

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A check of the pressure gauge on the engine fire bottles.
 - (2) A check of the pressure gauge on the APU fire bottles.

TASK 26-20-00-210-802

2. Engine Fire Extinguishing Bottle Check

NOTE: This procedure is a scheduled maintenance task.

A. Tools/Equipment

Reference	Description
STD-1122	Thermometer - Alcohol/Mercury (or equivalent meter meets task requirements)

B. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
311	Area Aft of Pressure Bulkhead - Left

C. Fire Extinguishing Bottle Check

NOTE: This procedure is for fire extinguishing bottles with pressure gauges. No action is required if a pressure gauge is not installed.

SUBTASK 26-20-00-860-002

- (1) Allow the fire bottle to reach ambient temperature.

NOTE: It may take several hours with the airplanes on the ground for the halon in the bottles to reach ambient temperature.

SUBTASK 26-20-00-010-003

- (2) The engine fire bottles are located on the aft bulkhead in the left main landing gear wheel well.

SUBTASK 26-20-00-970-002

CAUTION: KEEP MERCURY THERMOMETERS AWAY FROM THE AIRPLANE. IF THE THERMOMETER BREAKS, MERCURY CAN CAUSE DAMAGE TO THE AIRPLANE COMPONENTS.

- (3) Use a thermometer, STD-1122 to get the ambient air temperature by the fire bottle.

SUBTASK 26-20-00-210-003

- (4) Find the acceptable pressure range for the current temperature in the temperature curve Figure 601 or Figure 602

SUBTASK 26-20-00-210-004

- (5) Read the pressure gauge on the fire bottles.

(a) Make sure the pressure on the gauge falls within the pressure limits.

- 1) If the pressure on the gauge is not within the limits shown, replace the fire bottle with a serviceable fire bottle.

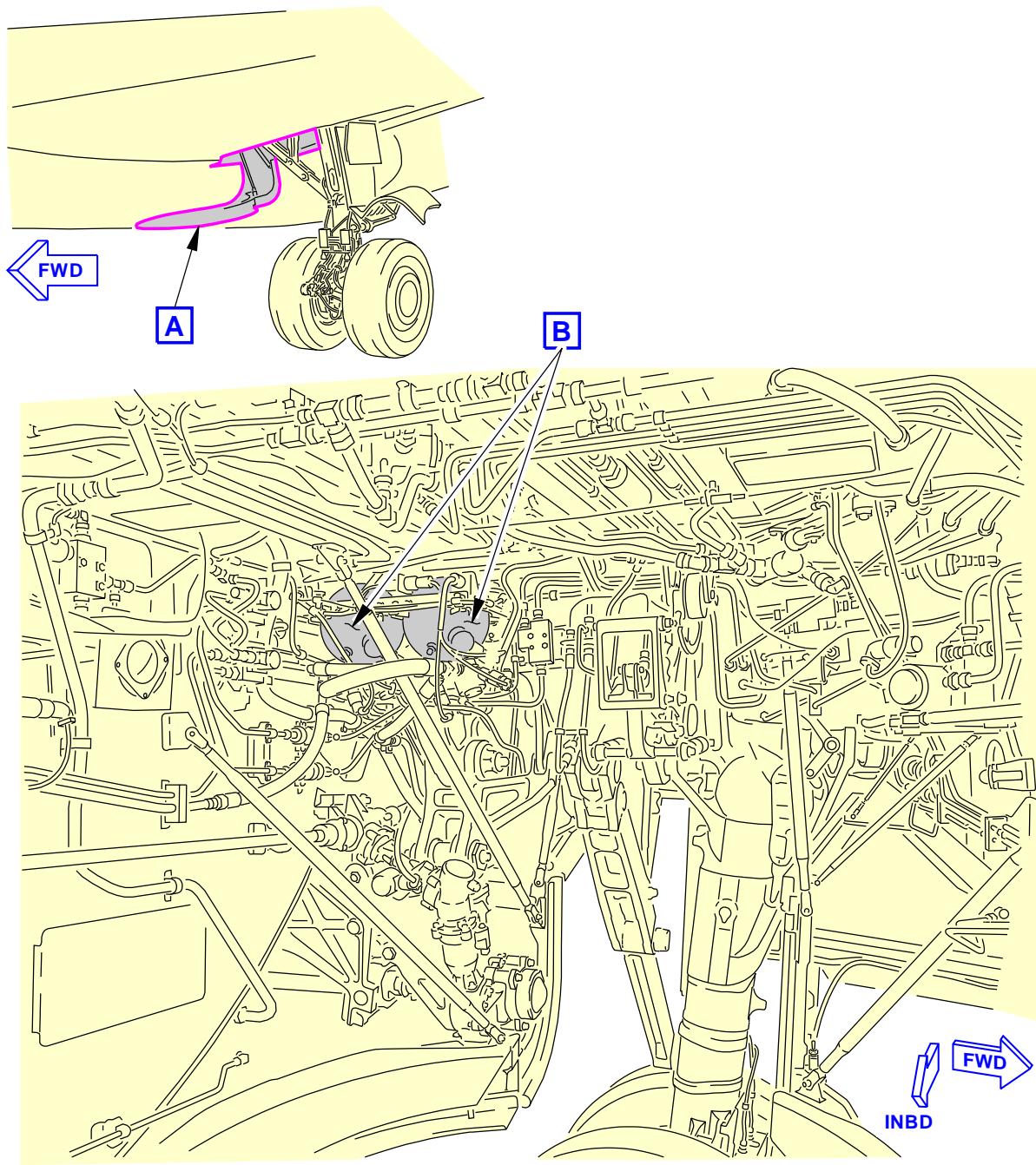
———— END OF TASK ————

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26-20-00



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MAIN LANDING GEAR WHEEL WELL
(LEFT SIDE)

A

H58750 S0006568259_V2

Engine Fire Extinguishing Bottle Inspection
Figure 601/26-20-00-990-803 (Sheet 1 of 2)

EFFECTIVITY
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26-20-00

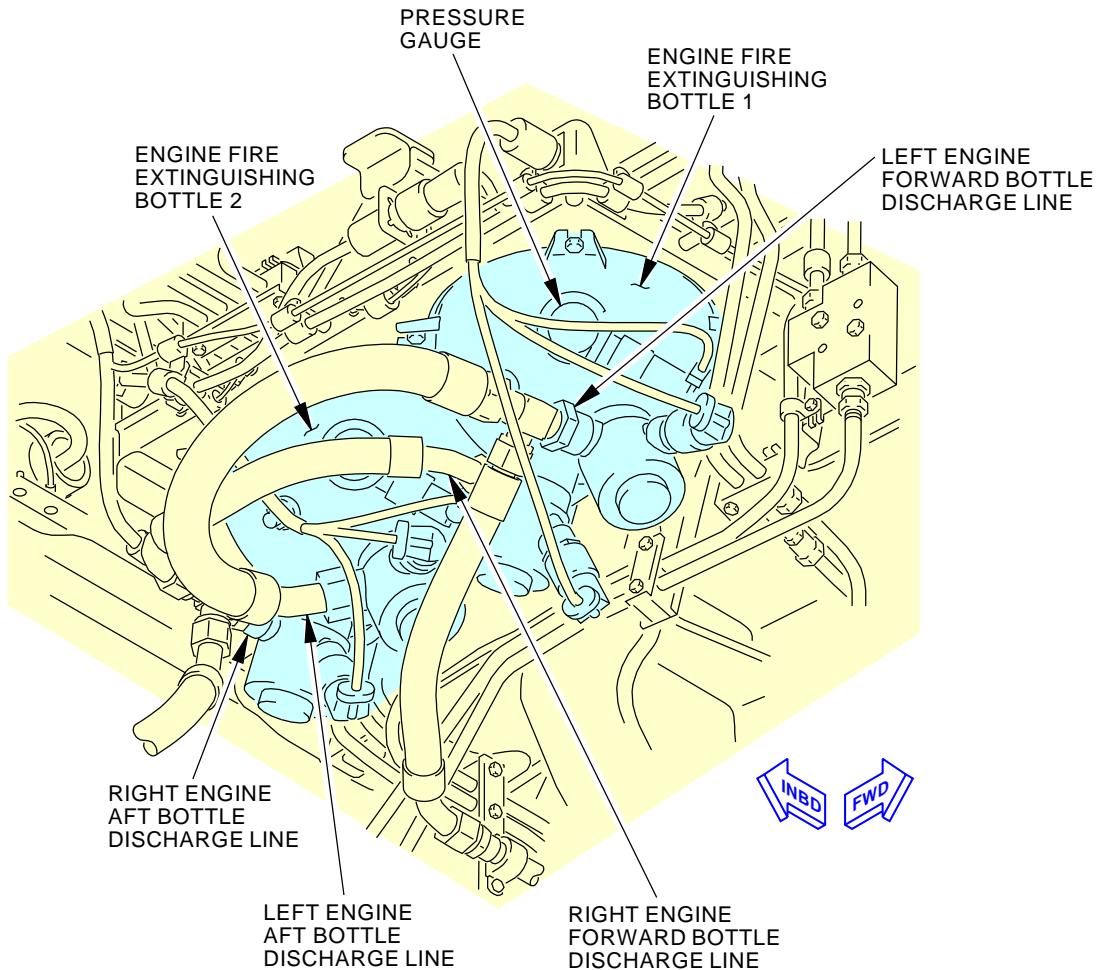
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B

H58755 S0006568260_V3

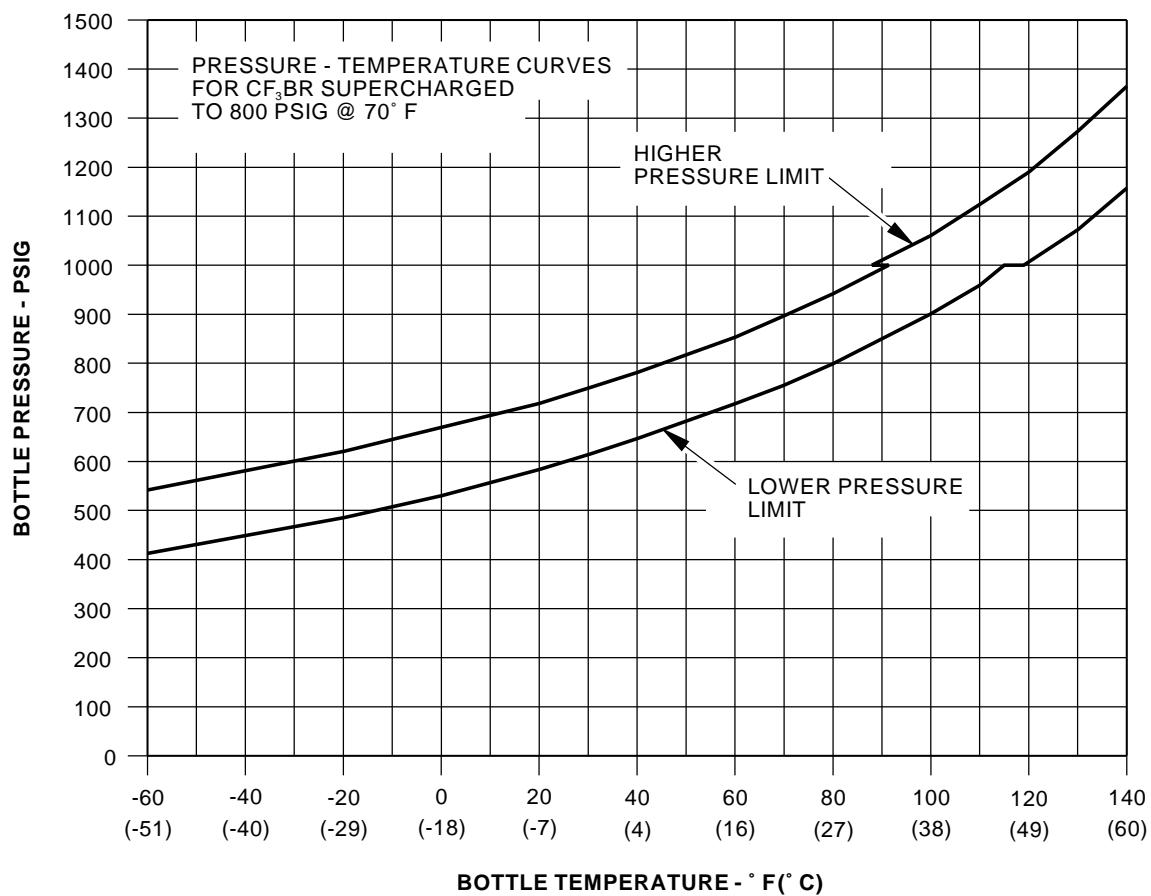
Engine Fire Extinguishing Bottle Inspection
Figure 601/26-20-00-990-803 (Sheet 2 of 2)

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G35596 S0006568232_V2

Fire Extinguisher Bottle Pressure - Temperature Curve
Figure 602/26-20-00-990-802

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TASK 26-20-00-210-801

3. APU Fire Extinguishing Bottle Check

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This procedure is applicable to fire extinguishing bottles with pressure gauges. This procedure is not required if a pressure gauge is not installed.

B. Tools/Equipment

Reference	Description
STD-1122	Thermometer - Alcohol/Mercury (or equivalent meter meets task requirements)

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
311	Area Aft of Pressure Bulkhead - Left

D. Access Panels

Number	Name/Location
311BL	Stabilizer Trim Access Door

E. Fire Extinguishing Bottle Check

SUBTASK 26-20-00-860-001

- (1) Allow the fire bottle to reach ambient temperature.

NOTE: It will take several hours with the airplane on the ground for the halon in the bottles to reach ambient temperature.

SUBTASK 26-20-00-010-001

- (2) To access the APU fire bottle, do this step:

Open this access panel:

Number Name/Location

311BL Stabilizer Trim Access Door

SUBTASK 26-20-00-970-001

CAUTION: DO NOT PUT A MERCURY THERMOMETER ON THE AIRPLANE. MERCURY (FROM A BROKEN THERMOMETER) CAN CAUSE DAMAGE TO THE AIRPLANE COMPONENTS.

- (3) Use a thermometer, STD-1122, to get the ambient air temperature by the fire bottle.

NOTE: Do not use the total temperature indication from the airplane for the ambient air temperature.

SUBTASK 26-20-00-210-001

- (4) Find the acceptable pressure range for the current temperature in the temperature curve Figure 603 or Figure 604.

SUBTASK 26-20-00-210-002

- (5) Do these steps:

(a) Read the pressure gauge on the fire bottle.

(b) Make sure the pressure on the gauge falls within the pressure limits.

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- 1) If the pressure on the gauge is not within the limits shown, replace the fire bottle with a serviceable fire bottle.

SUBTASK 26-20-00-410-001

- (6) To close the APU fire bottle access panel, do this step:

Close this access panel:

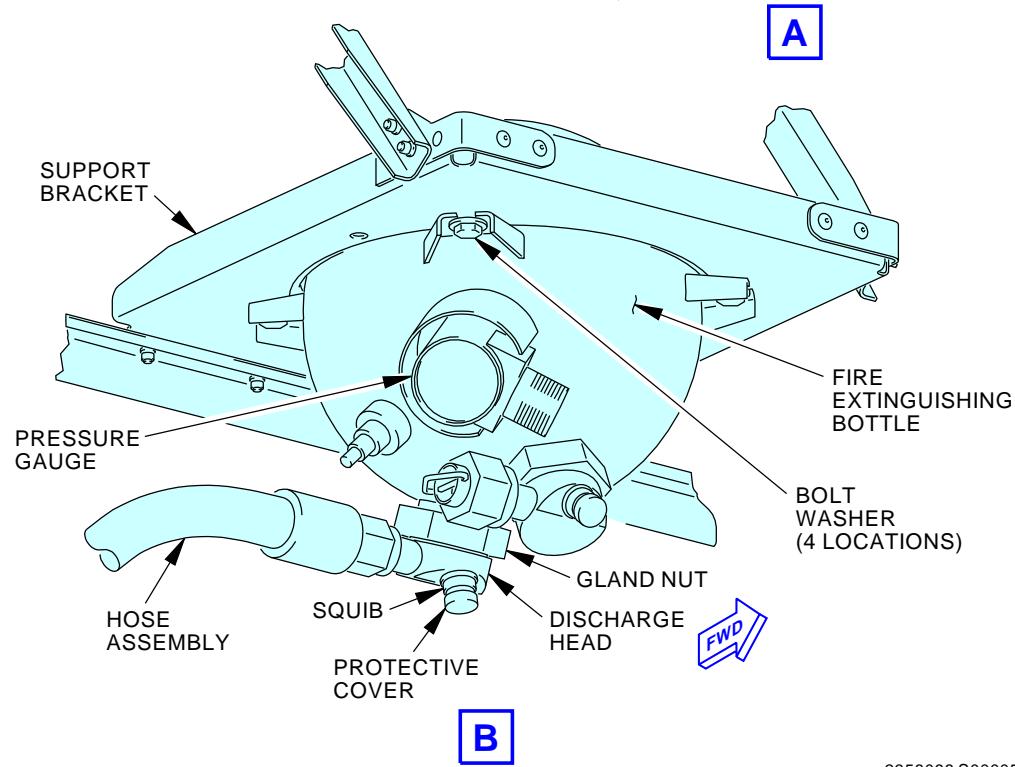
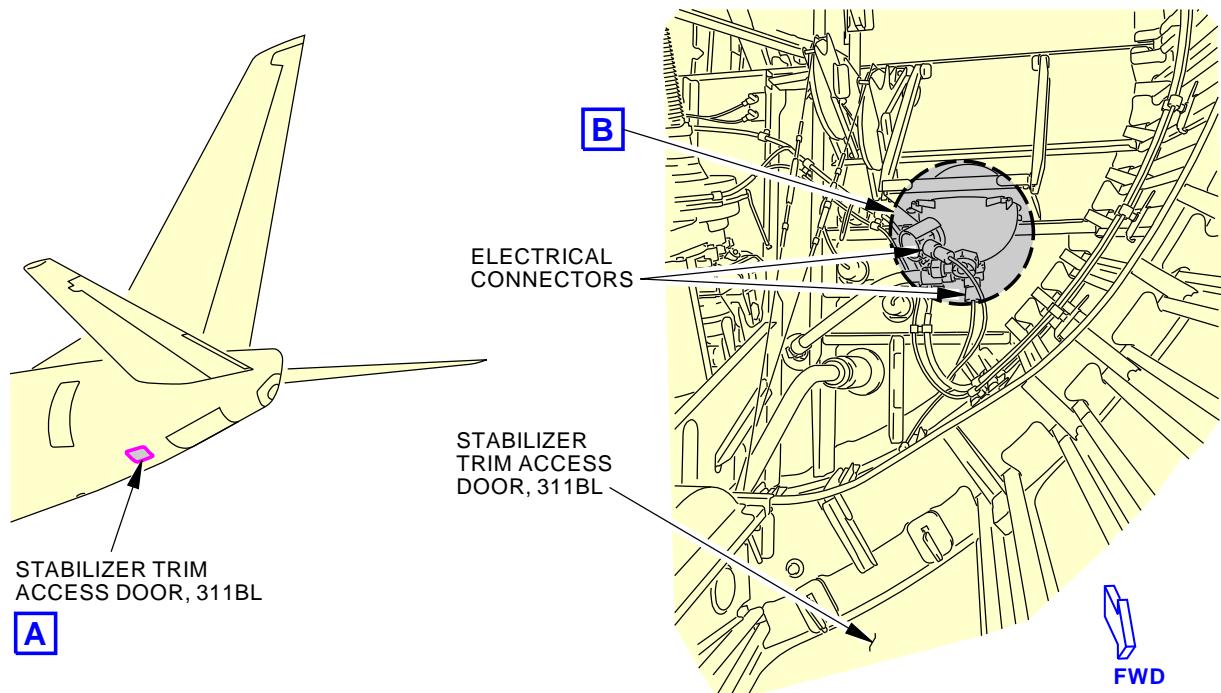
Number Name/Location

311BL Stabilizer Trim Access Door

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-20-00



2358098 S0000539093_V2

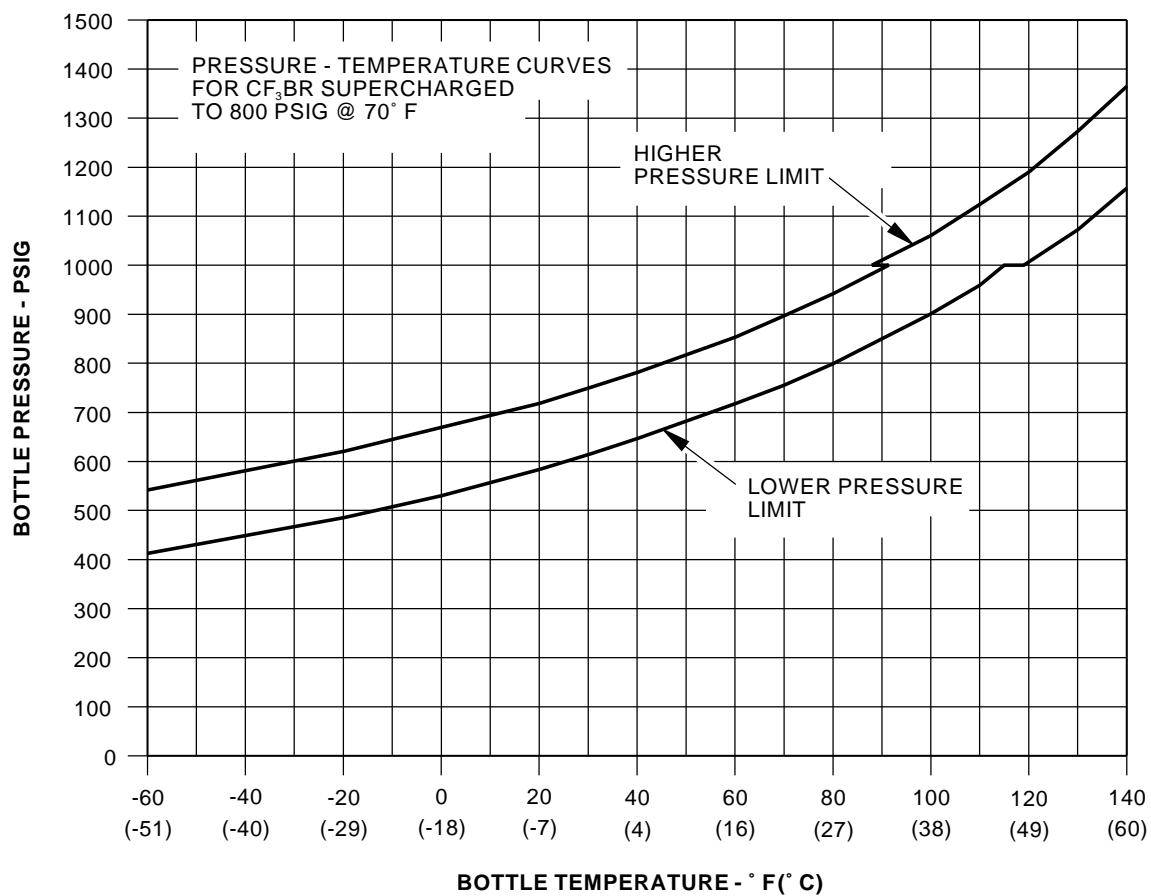
APU Fire Extinguishing Bottle Inspection
Figure 603/26-20-00-990-804

 EFFECTIVITY
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G35596 S0006568232_V2

Fire Extinguisher Bottle Pressure - Temperature Curve
Figure 604/26-20-00-990-801

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ENGINE FIRE EXTINGUISHING - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Engine fire extinguishing system - deactivation.
 - (2) Engine fire extinguishing system - activation.

TASK 26-21-00-040-801

2. Engine Fire Extinguishing System - Deactivation

A. General

- (1) This task will deactivate the engine fire extinguishing system.

B. Tools/Equipment

Reference	Description
STD-858	Tag - DO NOT OPERATE

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left
315	APU Compartment - Left
316	APU Compartment - Right
411	Engine 1 - Engine
421	Engine 2 - Engine

D. Procedure

SUBTASK 26-21-00-020-010

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-00-420-007

- (2) Put DO NOT OPERATE tags, STD-858 on the ENGINE 1 and ENGINE 2 fire handles on the P8-1 panel.

E. Engine Fire Extinguishing System - Tryout

NOTE: This tryout is to make sure that the power to the engine fire extinguishing system is in a zero energy state.

SUBTASK 26-21-00-020-011

- (1) Remove the DO NOT OPERATE tags, STD-858 from the ENGINE 1 and ENGINE 2 fire handles on the P8-1 panel.

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SUBTASK 26-21-00-210-002

- (2) Push the manual override button and pull the ENGINE 1 and ENGINE 2 fire extinguishing handles on the P8-1 panel.

SUBTASK 26-21-00-210-003

- (3) Turn the ENGINE 1 handle counterclockwise.
 - (a) Make sure that the L BOTTLE DISCHARGED light on the P8-1 panel stays off.

SUBTASK 26-21-00-210-004

- (4) Turn the ENGINE 1 handle back to its initial position.

SUBTASK 26-21-00-210-005

- (5) Turn the ENGINE 1 handle clockwise.
 - (a) Make sure that the R BOTTLE DISCHARGED light on the P8-1 panel stays off.

SUBTASK 26-21-00-210-006

- (6) Turn the ENGINE 1 handle back to its initial position.

SUBTASK 26-21-00-210-007

- (7) Turn the ENGINE 2 handle counterclockwise.
 - (a) Make sure that the L BOTTLE DISCHARGED light on the P8-1 panel stays off.

SUBTASK 26-21-00-210-008

- (8) Turn the ENGINE 2 handle back to its initial position.

SUBTASK 26-21-00-210-009

- (9) Turn the ENGINE 2 handle clockwise.
 - (a) Make sure that the R BOTTLE DISCHARGED light on the P8-1 panel stays off.

SUBTASK 26-21-00-210-010

- (10) Turn the ENGINE 2 handle back to its initial position.

SUBTASK 26-21-00-210-011

- (11) Set the ENGINE 1 and ENGINE 2 fire handles to their usual positions.

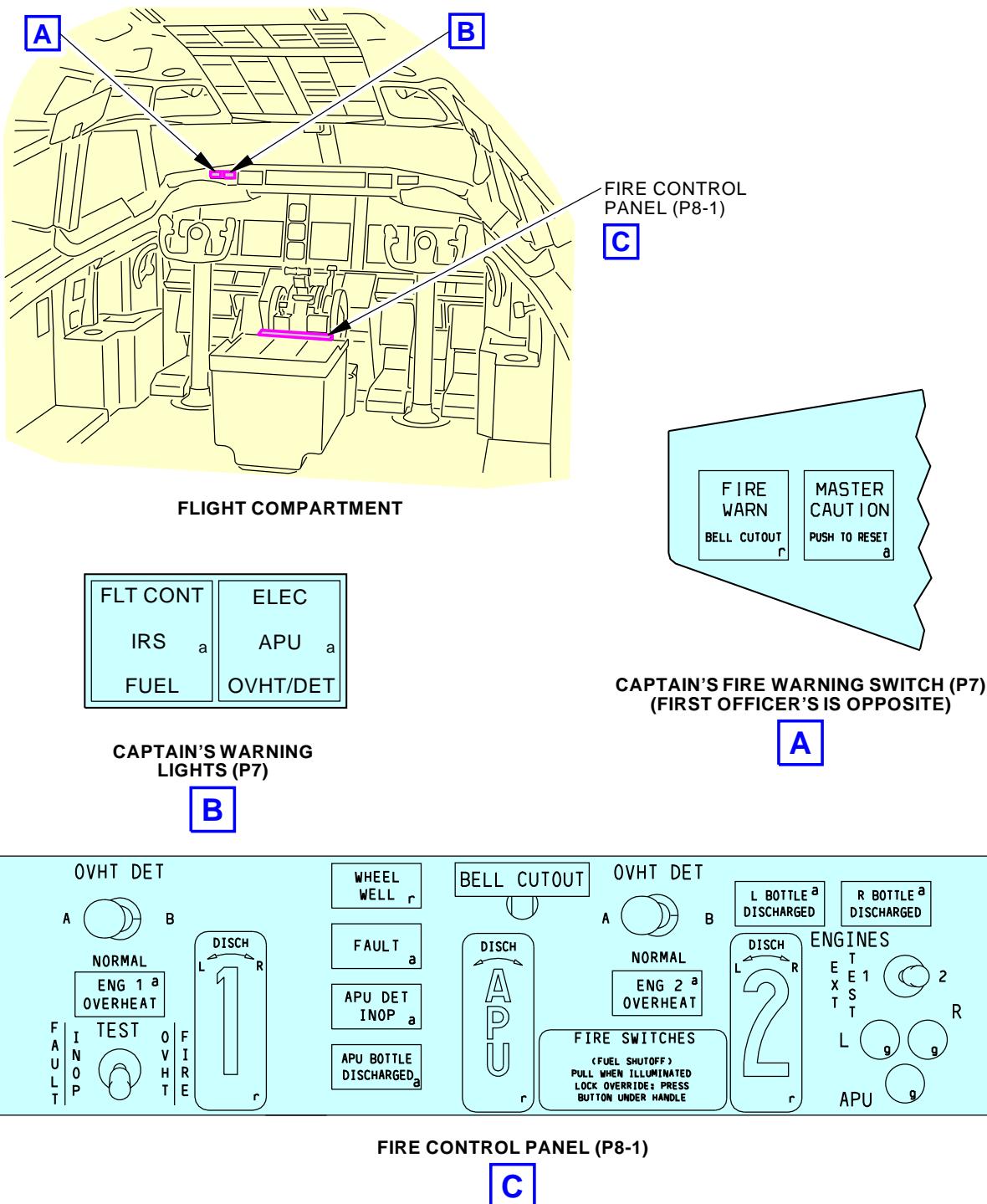
SUBTASK 26-21-00-420-008

- (12) Put DO NOT OPERATE tags, STD-858 on the ENGINE 1 and ENGINE 2 fire handles on the P8-1 panel.

———— END OF TASK ————

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Engine Fire Extinguishing System
Figure 201/26-21-00-990-806

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TASK 26-21-00-440-801

3. Engine Fire Extinguishing System - Activation

(Figure 201)

A. General

- (1) This task will activate the engine fire extinguishing system.

B. Tools/Equipment

Reference	Description
STD-858	Tag - DO NOT OPERATE

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left
315	APU Compartment - Left
316	APU Compartment - Right
411	Engine 1 - Engine
421	Engine 2 - Engine

D. Procedure

SUBTASK 26-21-00-420-009

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-00-020-013

- (2) Remove the DO NOT OPERATE tags, STD-858, from the ENGINE 1 and ENGINE 2 fire handles on the P8-1 panel.

SUBTASK 26-21-00-710-006

- (3) Put and hold the EXT TEST switch on the P8-1 panel to 1.

- (a) Make sure the L and R lights come on.

NOTE: The APU light will also come on.

SUBTASK 26-21-00-710-004

- (4) Put and hold the EXT TEST switch on the P8-1 panel to 2.

- (a) Make sure the L and R lights come on.

NOTE: The APU light will also come on.



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SUBTASK 26-21-00-710-005

- (5) Release the EXT TEST switch.

———— END OF TASK ——

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ENGINE FIRE EXTINGUISHING - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A test of the engine fire bottle squib circuit.
 - (2) A test of the engine fire bottle pressure switch circuit.
 - (3) An airflow test through the discharge tubes.
 - (4) A pressure test of the engine fire bottle discharge tubes.
 - (5) A shutdown test of the engine systems.

TASK 26-21-00-730-801

2. Engine Fire Extinguishing Bottle Squib Circuit Test

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536
SPL-1663	Test Equipment - Fire Extinguishing System Part #: F80229-69 Supplier: 81205 Opt Part #: F80229-15 Supplier: 81205



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(Continued)

Reference	Description
SPL-10039	Cable Assy - Fire Extinguishing System Test Equipment - 737-300/400/500/600/700/800/900 Part #: F80229-20 Supplier: 81205 Part #: F80229-48 Supplier: 81205 Part #: F80229-59 Supplier: 81205 Part #: F80229-61 Supplier: 81205
SPL-10040	Shorting Plug - Fire Extinguishing System Test Equipment - 737-300/400/500/600/700/800/900 Part #: F80229-52 Supplier: 81205
STD-1079	Resistor - 10K Ohm or Greater

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Test

SUBTASK 26-21-00-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-00-020-001

- (2) Disconnect the electrical connectors from the squibs.

WARNING: DO NOT TOUCH THE SQUIB BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (a) Before you touch the squib, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:
 - ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802
 - ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802
- (b) Disconnect D582 and D584 to test the engine 1 circuits.
- (c) Disconnect D1322 and D1324 to test the engine 2 circuits.

SUBTASK 26-21-00-020-002

WARNING: PUT A PROTECTIVE CAP ON THE SQUIB. IF YOU DO NOT PUT A PROTECTIVE CAP ON THE SQUIB, THE FIRE EXTINGUISHING BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

- (3) Install a fire extinguishing test set shorting plug, SPL-10040, on each squib.



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SUBTASK 26-21-00-860-002

- (4) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-00-480-009

- (5) Set the toggle switch on Fire System Test Equipment, SPL-1663 (test box), to ON.

SUBTASK 26-21-00-760-001

- (6) Measure the resistance (RL) of the test box with a digital/analog multimeter, COM-1793, connected to the voltmeter jacks.
(a) Write down the value of RL in the Table 502 or, in the Table 503 as applicable for the adapter cable.

SUBTASK 26-21-00-480-010

- (7) Set the toggle switch on the Fire System Test Equipment, SPL-1663, to OFF.

SUBTASK 26-21-00-480-011

- (8) Set the multimeter to read DC volts.

SUBTASK 26-21-00-480-012

- (9) Connect the applicable fire extinguishing test set cable assembly, SPL-10039, for the primary circuit (A) to the connector on the Fire System Test Equipment, SPL-1663. The primary circuit (A) is between pins 4 and 3 of each squib connector.

NOTE: Look at the placard on the test box lid to determine the applicable adapter.

NOTE: Each squib has two circuits. The primary circuit (A) is between pins 4 and 3; the alternate circuit (B) is between pins 6 and 7. Either circuit can fire the squib. There are different adapter cables in the test set to test each circuit.

E. Do the Engine Fire Extinguishing Bottle Squib Circuit Test

SUBTASK 26-21-00-860-035

- (1) Push the manual override button and pull the ENGINE 1 and ENGINE 2 fire handles on the P8-1 panel.

SUBTASK 26-21-00-480-013

- (2) Connect the fire extinguishing test set cable assembly, SPL-10039, for the primary circuit (A) to one of the squib connectors. These connectors are listed in the Fire Bottle Squib Circuit Test Data table.

Engine Fire Bottle Squib Circuit Test Data

Table 501/26-21-00-993-804

CONNECTOR	SQUIB LOCATION	ENGINE	DIRECTION
D582	L (forward) bottle, squib 1A squib 1B	1	CCW
D1322	L (forward) bottle, squib 2A squib 2B	2	CCW
D584	R (aft) bottle, squib 1A squib 1B	1	CW
D1324	R (aft) bottle, squib 2A squib 2B	2	CW

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SUBTASK 26-21-00-860-036

- (3) Turn the applicable fire handle in the direction listed in the Fire Bottle Squib Circuit Test Data table.
 - (a) Make sure the BOTTLE DISCHARGE light on the Fire System Test Equipment, SPL-1663, comes on.
 - (b) Write down the voltage shown on the multimeter as (V1) in the Table 502 or, in the Table 503 as applicable for the adapter cable.
 - (c) Set the switch on the test box to ON.
 - (d) Write down the voltage shown on the multimeter as (V2) in the Table 502 or, in the Table 503 as applicable for the adapter cable.

SUBTASK 26-21-00-730-001

- (4) Release the fire handle.
 - (a) Make sure the handle moves toward the center 10 degrees.
 - (b) Make sure the multimeter shows 0 (\pm 2) volts.

SUBTASK 26-21-00-760-002

- (5) Calculate the resistance R_c of the squib discharge circuit using this formula:

$$R_c = RL(V1/V2) - RL$$

- (a) Make sure R_c is less than or equal to 3 ohms.

NOTE: If R_c is more than 3 ohms, the circuit can not supply enough current to fire the squib cartridge.

Table 502/26-21-00-993-805 Primary (A) Circuit Engine Fire Bottle Squib Test Result

CONNECTOR	RL	V1	V2	R_c
D582				
D1322				
D584				
D1324				

Table 503/26-21-00-993-806 Alternate (B) Circuit Engine Fire Bottle Squib Test Result

CONNECTOR	RL	V1	V2	R_c
D582				
D1322				
D584				
D1324				

SUBTASK 26-21-00-480-014

- (6) Disconnect the adapter cable from the squib connector, and repeat the procedure until all the connectors listed in the Fire Bottle Squib Circuit Test Data table are tested.
- (7) Disconnect the adapter cable for the primary circuit (A) from the squib connector.

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- (8) Do the procedure again with the adapter cable for the Alternate circuit (B). Until all the connectors listed in the Fire Bottle Squib Circuit Test Data table are tested.

NOTE: Each squib has two circuits. The primary circuit (A) is between pins 4 and 3; the alternate circuit (B) is between pins 6 and 7. Either circuit can fire the squib. There are different adapter cables in the test set to test each circuit.

- (9) When you completed the procedure with both adapter cables. Disconnect the adapter cable from the squib connector.

SUBTASK 26-21-00-860-038

- (10) Push the fire handles to their usual position.

SUBTASK 26-21-00-860-003

- (11) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-00-080-001

- (12) Remove the protective cap from the squibs.

SUBTASK 26-21-00-700-001

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (13) Do this to make sure that there is no stray voltage at the electrical squib connector:

Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

- Connect the digital/analog multimeter, COM-1793, across the two pins.
- Make sure that the current is less than 5 mA.
- Connect a resistor, STD-1079, across the multimeter probes.
- Make sure that the voltage is less than .250 V.
- If necessary, repeat the steps above for the other squib electrical connectors.
- Disconnect the multimeter.

SUBTASK 26-21-00-420-001

- (14) Connect the electrical connectors to the squibs.

- Connect D582 and D584 to Squib 1 on the left and right bottle.
- Connect D1322 and D1324 to Squib 2 on the left and right bottle.

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SUBTASK 26-21-00-860-004

- (15) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-00-710-001

- (16) Set the EXT TEST switch to 1.

- (a) Make sure the L and R lights come on.

NOTE: The APU light should also come on.

SUBTASK 26-21-00-710-002

- (17) Set the EXT TEST switch to 2.

- (a) Make sure the L and R lights come on.

NOTE: The APU light should also come on.

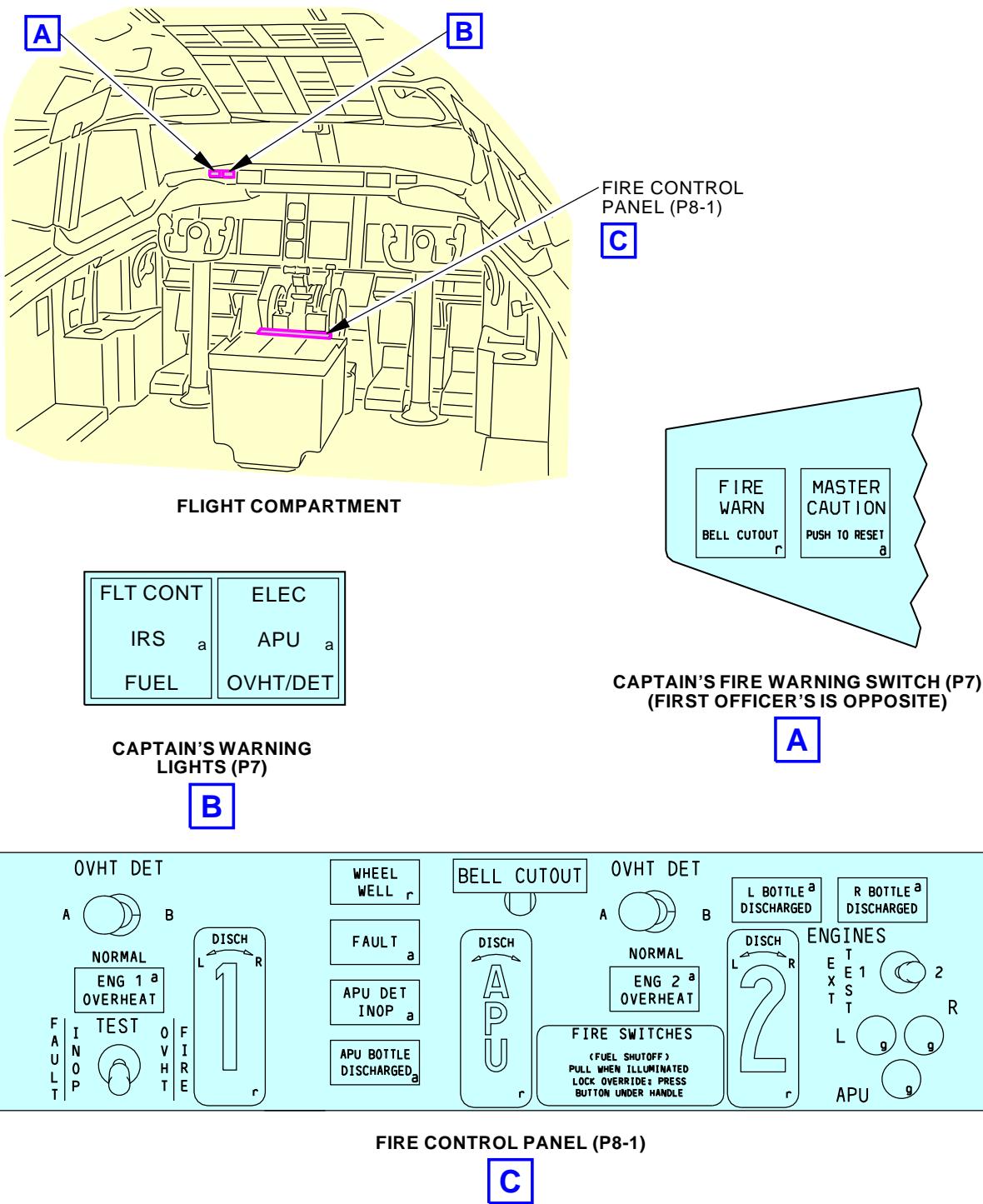
SUBTASK 26-21-00-710-003

- (18) Release the EXT TEST switch.

———— END OF TASK ————



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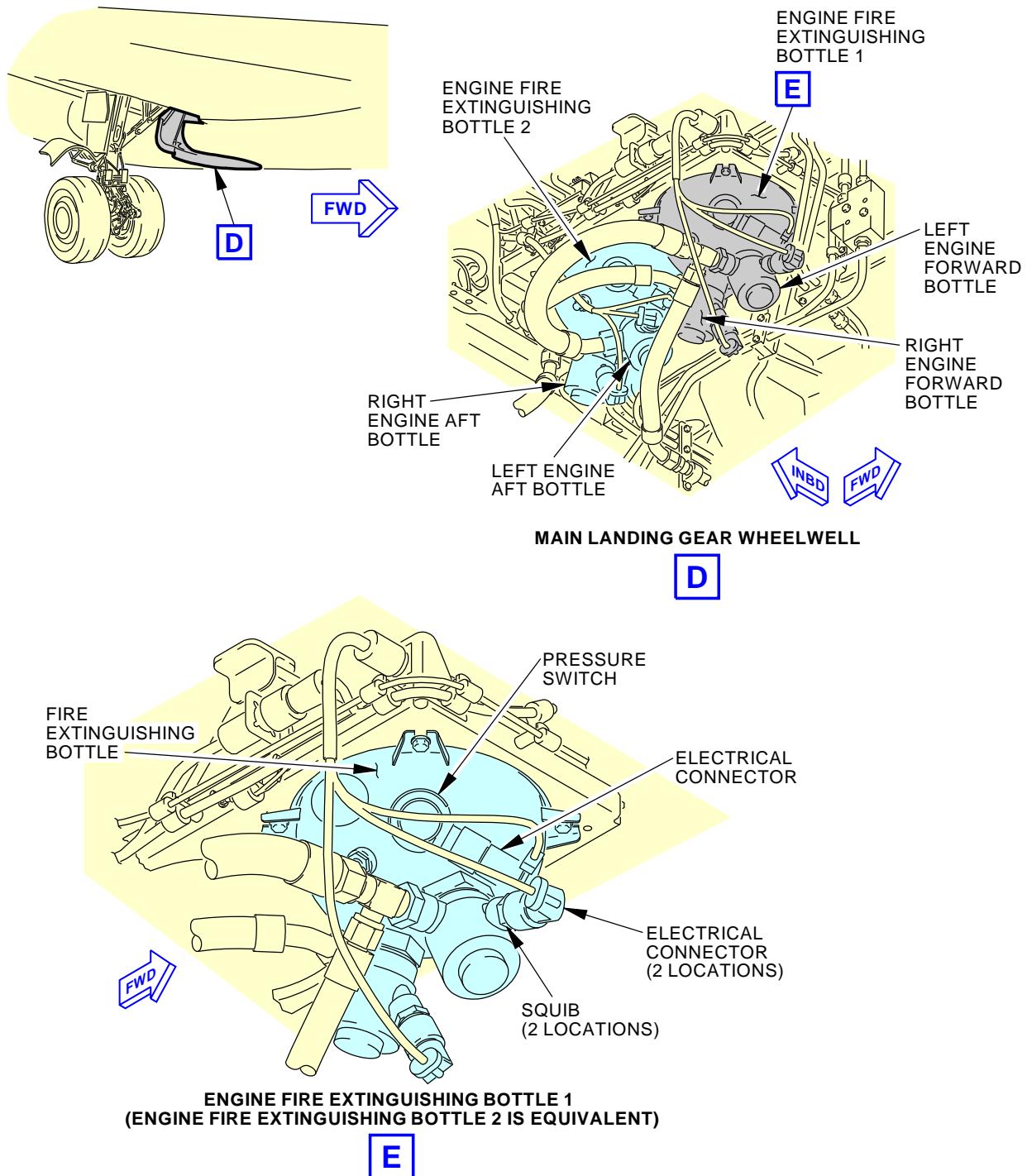


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Engine Fire Detection Test
Figure 501/26-21-00-990-801 (Sheet 1 of 2)

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Engine Fire Detection Test
Figure 501/26-21-00-990-801 (Sheet 2 of 2)

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TASK 26-21-00-730-802

3. **Engine Fire Extinguishing Bottle Pressure Switch Circuit Test**
(Figure 501)

A. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
211	Flight Compartment - Left
212	Flight Compartment - Right

B. Engine Fire Extinguishing Bottle Pressure Switch Test

SUBTASK 26-21-00-020-003

- (1) Disconnect D586 from the pressure switch on the left (forward) fire bottle.

SUBTASK 26-21-00-020-004

- (2) Disconnect D588 from the pressure switch on the right (aft) fire bottle.

SUBTASK 26-21-00-730-002

- (3) Do a test of the engine fire bottle pressure switch circuit.

- (a) Connect a jumper wire between pins 1 and 2 on D586.

- 1) Make sure the L BOTTLE DISCHARGED light on the Engine and APU Fire Control Module comes on.

- (b) Remove the jumper from connector D586.

- (c) Connect a jumper wire between pins 1 and 2 on D588.

- 1) Make sure the R BOTTLE DISCHARGED light on the Engine and APU Fire Control Module comes on.

- (d) Remove the jumper from connector D588.

SUBTASK 26-21-00-420-002

- (4) Connect D586 to the pressure switch on the left (forward) fire bottle.

SUBTASK 26-21-00-420-003

- (5) Connect D588 to the pressure switch on the right (aft) fire bottle.

———— END OF TASK ————

TASK 26-21-00-720-801

4. **Engine Fire Extinguishing Discharge Line Flow Test**
(Figure 502, Figure 503)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) The Engine Fire Extinguishing Discharge Line Flow Test checks the operation of the check valve, and makes sure there is nothing blocking the discharge lines.

B. References

Reference	Title
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)
78-31-00-010-804-F00	Close the Thrust Reverser (Selection) (P/B 201)





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C. Tools/Equipment

Reference	Description
STD-1325	Source - Pressure, Capable of Supplying 35 +/- 5 PSIG

D. Consumable Materials

Reference	Description	Specification
D50004	Compound - Antiseize	BMS3-28

E. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
411	Engine 1 - Engine
421	Engine 2 - Engine

F. Engine Fire Extinguishing Discharge Line Flow Test

SUBTASK 26-21-00-010-001

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSERS: RETRACT THE LEADING EDGE, DO THE DEACTIVATION PROCEDURES FOR THE LEADING EDGE AND THE THRUST REVERSERS (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANELS. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

SUBTASK 26-21-00-020-005

- (2) Remove the discharge tube from the discharge outlets on both engine fire bottles at positions 1 through 4.

SUBTASK 26-21-00-480-001

- (3) Connect a pressure source, STD-1325 to the L fire bottle discharge line at position 2.
- (a) When connecting the test equipment to the discharge lines, do not let the test equipment hang from the discharge lines.
 - (b) Give sufficient support to the test equipment during the flow test.
 - (c) Make sure air is flowing through all the nozzles on the right engine.
 - (d) Make sure little or no air is flowing through the R fire bottle discharge line at position 4.

SUBTASK 26-21-00-080-002

- (4) Remove the pressure source from the L fire bottle discharge line at position 2.

SUBTASK 26-21-00-480-002

- (5) Connect a pressure source, STD-1325 to the R fire bottle discharge line at position 4.
- (a) Make sure air is flowing through all the nozzles on the right engine.
 - (b) Make sure little or no air is flowing through the L fire bottle discharge line at position 2.

SUBTASK 26-21-00-080-003

- (6) Remove the pressure source from the R fire bottle discharge line at position 4.

SUBTASK 26-21-00-480-003

- (7) Connect a pressure source, STD-1325 to the L fire bottle discharge line at position 1.
- (a) Make sure air is flowing through all the nozzles on the left engine.
 - (b) Make sure little or no air is flowing through the R fire bottle discharge line at position 3.

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SUBTASK 26-21-00-080-004

- (8) Remove the pressure source from the L fire bottle discharge line at position 1.

SUBTASK 26-21-00-480-004

- (9) Connect a pressure source, STD-1325 to the R fire bottle discharge line at position 3.
(a) Make sure air is flowing through all the nozzles on the left engine.
(b) Make sure little or no air is flowing through the L fire bottle discharge line at position 1.

SUBTASK 26-21-00-080-005

- (10) Remove the pressure source from the R fire bottle discharge line at position 3.

SUBTASK 26-21-00-420-004

- (11) Connect the discharge tubes to the discharge outlets on both bottles positions 1 through 4.
(a) Apply a layer of compound, D50004 to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.
(b) Connect the tube assembly to the discharge head.
NOTE: Yellow is used to show the plumbing which supplies extinguishant to engine number 1. Blue is used to show the plumbing which supplies extinguishant to engine number 2.
(c) Remove any unwanted compound.
(d) At positions 1 and 3, tighten the nut on the tube assembly to 450 ± 18 in-lb (51 ± 2 N·m).
(e) At positions 2 and 4, tighten the nut on the tube assembly to 360 ± 18 in-lb (41 ± 2 N·m).

SUBTASK 26-21-00-010-002

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (12) Do this task: Close the Thrust Reverser (Selection), TASK 78-31-00-010-804-F00.

————— END OF TASK ————

TASK 26-21-00-730-803

5. Engine Fire Extinguishing Discharge Line Pressure Test

(Figure 502, Figure 503)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) The pressure test is the same for both engines.

B. References

Reference	Title
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)
78-31-00-010-804-F00	Close the Thrust Reverser (Selection) (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

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Reference	Description
SPL-1647	Test Equipment - Engine Fire Extinguishing System Part #: C26004-73 Supplier: 81205 Part #: C26004-74 Supplier: 81205 Part #: C26004-83 Supplier: 81205 Part #: C26004-84 Supplier: 81205 Opt Part #: C26004-32 Supplier: 81205 Opt Part #: C26004-33 Supplier: 81205
STD-1325	Source - Pressure, Capable of Supplying 35 +/- 5 PSIG
STD-12129	Pressure Regulator - Adjustable

D. Consumable Materials

Reference	Description	Specification
D50004	Compound - Antiseize	BMS3-28

E. Location Zones

Zone	Area
411	Engine 1 - Engine
421	Engine 2 - Engine

F. Engine Fire Extinguishing Discharge Line Pressure Test

SUBTASK 26-21-00-010-003

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSER: RETRACT THE LEADING EDGE, DO THE DEACTIVATION PROCEDURES FOR THE LEADING EDGE AND THE THRUST REVERSER (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANELS. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

SUBTASK 26-21-00-020-006

- (2) Disconnect the tee fitting from the discharge outlet on the L fire bottle at position 1.

SUBTASK 26-21-00-480-005

- (3) Connect a pressure source, STD-1325, and an adjustable pressure regulator, STD-12129, to the L fire bottle discharge line at position 1.
 - (a) When connecting the test equipment to the discharge lines, do not let the test equipment hang from the discharge lines.
 - (b) Give sufficient support to the test equipment during the pressure test.

SUBTASK 26-21-00-480-006

- (4) Install plugs on the fire extinguishing nozzles at the left engine (engine 1).

NOTE: The equipment, SPL-1647 or other suitable plug may be used.

SUBTASK 26-21-00-780-001

- (5) Pressurize the discharge tubing that goes from L bottle to engine 1 to a pressure of 35 ± 5 psi (241 ± 35 kPa).
 - (a) Wait at least 3 minutes for the air pressure to stabilize.

SUBTASK 26-21-00-780-002

- (6) Turn off the pressure source.

- (a) Record the stabilized air pressure.

EFFECTIVITY
AKS ALL

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- (b) Wait 2 minutes, then check the pressure.
 - 1) Make sure the pressure loss during the 2 minute waiting period is not more than 1 psi.
 - 2) If the pressure loss is more than 1 psi, do a check of the pressure source connections and the plugs used to seal the fire extinguishing nozzles. If they do not show any indication of leakage, then do a check of all fittings, seal surfaces, valves, and tubing in the discharge line. Repair the problems that you find.

SUBTASK 26-21-00-780-003

- (7) Bleed the fire extinguishing plumbing to 0 psi and disconnect the test equipment from position 1.

SUBTASK 26-21-00-020-009

- (8) Disconnect the tee fitting from the discharge outlet on the R fire bottle at position 4.

SUBTASK 26-21-00-480-007

- (9) Connect the test equipment to the R fire bottle discharge line at position 4.

SUBTASK 26-21-00-480-008

- (10) Install plugs on the fire extinguishing nozzles at the right engine (engine 2).

NOTE: The equipment, SPL-1647 or other suitable plug may be used.

SUBTASK 26-21-00-780-004

- (11) Pressurize the discharge tubing that goes from R bottle to engine 2 to a pressure of 35 ± 5 psi (241 ± 35 kPa).

- (a) Wait at least 3 minutes for the air pressure to stabilize.

SUBTASK 26-21-00-780-005

- (12) Turn off the pressure source.

- (a) Record the stabilized air pressure.
 - (b) Wait 2 minutes, then check the pressure.

- 1) Make sure the pressure loss during the 2 minute waiting period is not more than 1 psi.
 - 2) If the pressure loss is more than 1 psi, do a check of the pressure source connections and the plugs used to seal the fire extinguishing nozzles. If they do not show any indication of leakage, then do a check of all fittings, seal surfaces, valves, and tubing in the discharge line. Repair the problems that you find.

SUBTASK 26-21-00-780-006

- (13) Bleed the fire extinguishing plumbing to 0 psi and disconnect the pressure source at position 4.

SUBTASK 26-21-00-080-007

CAUTION: REMOVE THE PLUGS FROM THE FIRE EXTINGUISHING NOZZLES AT THE TWO ENGINES. DAMAGE TO EQUIPMENT CAN OCCUR IF YOU DO NOT REMOVE THE PLUGS.

- (14) Remove the test equipment.

SUBTASK 26-21-00-420-005

- (15) Connect the discharge tubes to the discharge outlets at positions 1 and 4.



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WARNING: DO NOT GET THE CORROSION-INHIBITING COMPOUND ON YOUR SKIN, IN YOUR EYES, OR ON YOUR CLOTHES. THE COMPOUND IS POISONOUS AND FLAMMABLE. USE APPROVED GLOVES, AND EYE PROTECTION. MAKE SURE THAT THERE IS GOOD AIRFLOW IN THE WORK AREA. KEEP THE COMPOUND AWAY FROM SPARKS AND FLAMES. THE COMPOUND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (a) Apply a layer of compound, D50004 to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.
- (b) Connect the tube assembly to the discharge head.

NOTE: Yellow is used to show the plumbing which supplies extinguishant to engine number 1. Blue is used to show the plumbing which supplies extinguishant to engine number 2.

- (c) Remove any unwanted compound.
- (d) At position 1, tighten the nut on the tube assembly to 450 ± 18 in-lb (51 ± 2 N·m).
- (e) At position 4, tighten the nut on the tube assembly to 360 ± 18 in-lb (41 ± 2 N·m).

SUBTASK 26-21-00-010-004

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (16) Do this task: Close the Thrust Reverser (Selection), TASK 78-31-00-010-804-F00.

———— END OF TASK ————

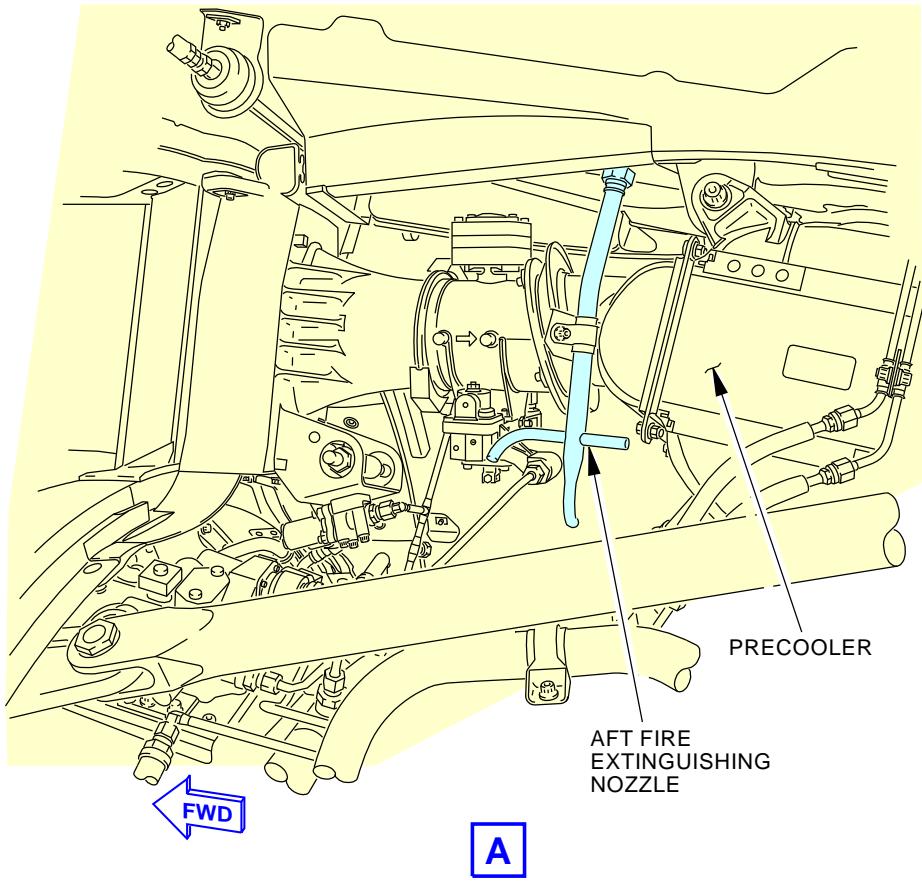
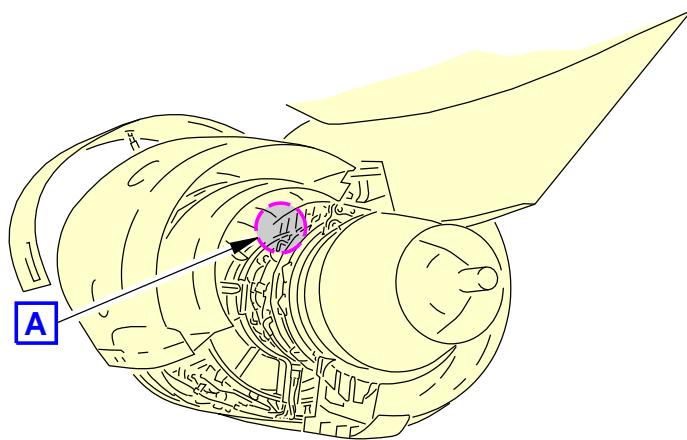
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Engine Fire Extinguishing Test
Figure 502/26-21-00-990-802 (Sheet 1 of 2)

EFFECTIVITY
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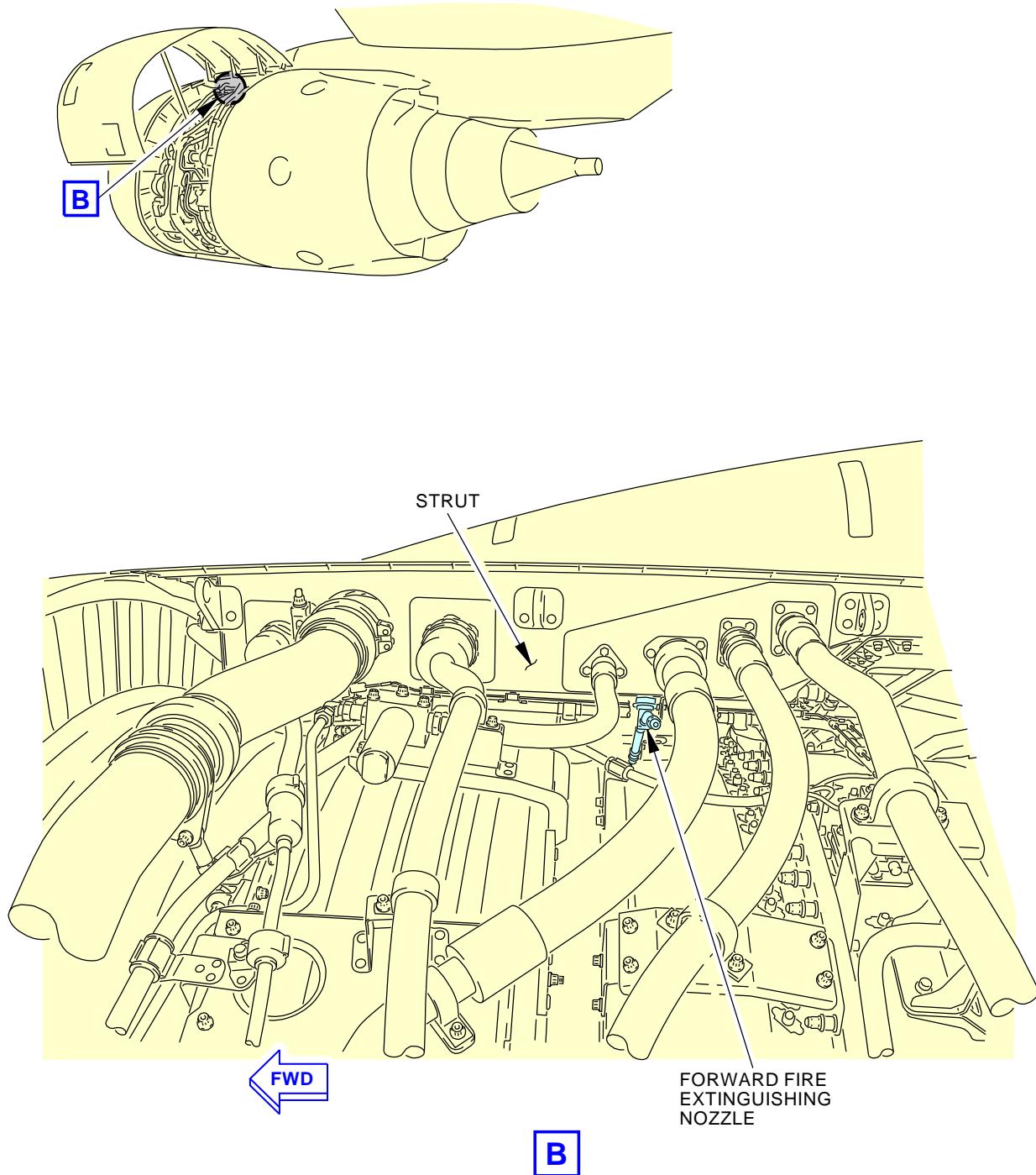
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G28064 S0006568244_V3

Engine Fire Extinguishing Test
Figure 502/26-21-00-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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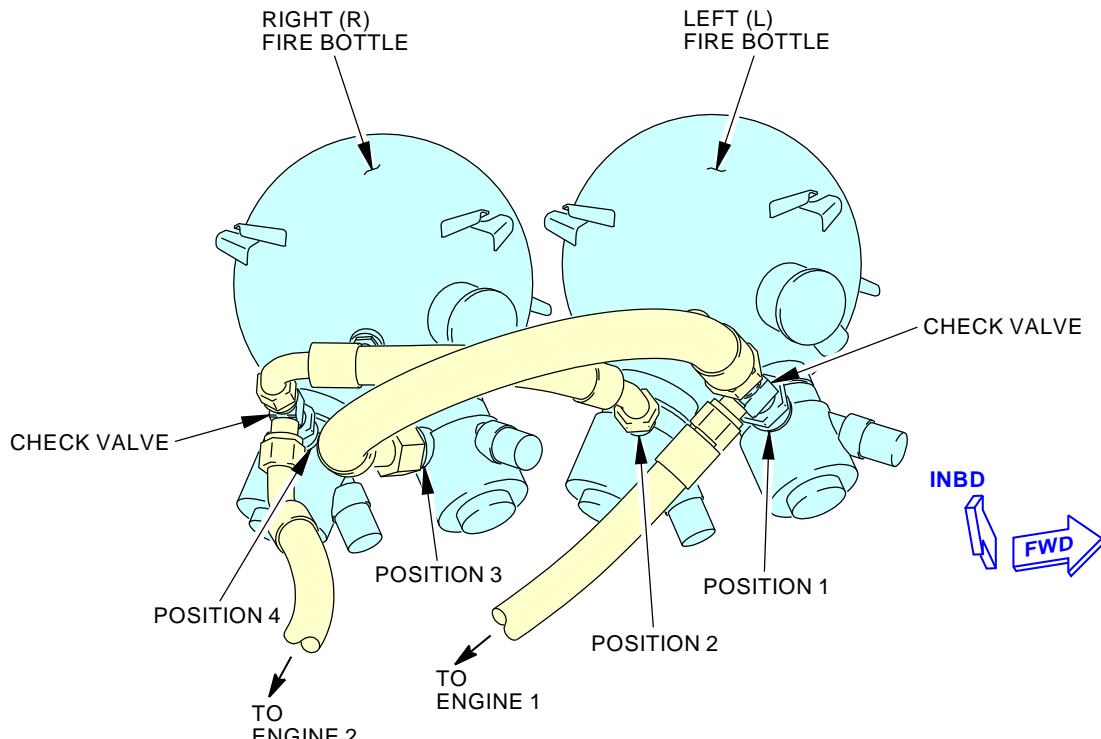
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ENGINE FIRE EXTINGUISHING BOTTLES
(MAIN LANDING GEAR WHEEL WELL, LEFT SIDE)

K03546 S0006568245_V5

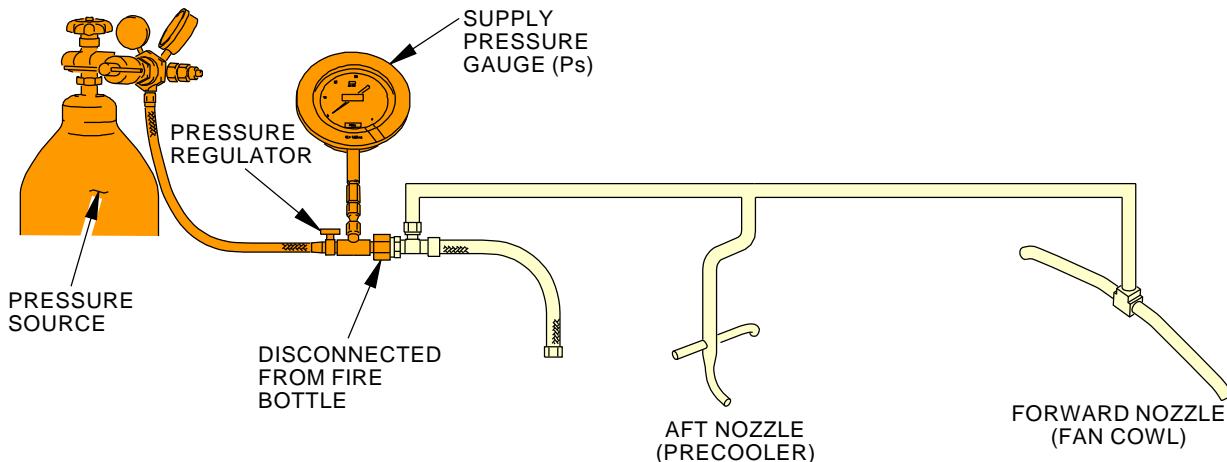
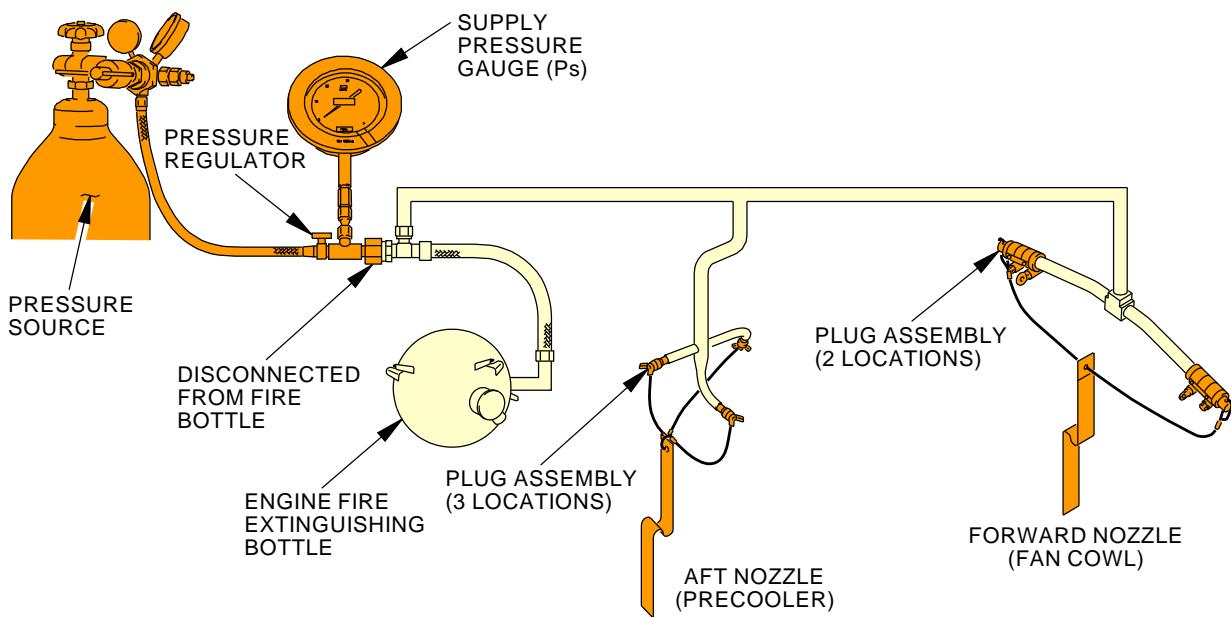
Test Setup
Figure 503/26-21-00-990-805 (Sheet 1 of 2)

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FLOW TEST

PRESSURE TEST

K03773 S0006568246_V2

Test Setup
Figure 503/26-21-00-990-805 (Sheet 2 of 2)

EFFECTIVITY
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TASK 26-21-00-720-802

6. Engine Fire Switch System Shutdown Test

(Figure 501, Figure 504, Figure 505)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This procedure checks that the engine is isolated from the fuel, hydraulic, pneumatic and electrical systems, and that the thrust reverser is disabled when the fire handle is pulled. It should be performed when the Engine and APU Fire Control Panel is replaced.
- (2) This test is written for engine 1. The test is the same for engine 2, except as noted by the data in parentheses. Use the data in parentheses to do the test for engine 2.

B. References

Reference	Title
24-22-00-860-813	Supply External Power (P/B 201)
29-11-00-860-801	Hydraulic System A or B Pressurization (P/B 201)
29-11-00-860-805	Hydraulic System A or B Power Removal (P/B 201)
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)
78-31-00-010-804-F00	Close the Thrust Reverser (Selection) (P/B 201)

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right
410	Subzone - Engine 1
420	Subzone - Engine 2

D. Prepare for the test

SUBTASK 26-21-00-860-005

- (1) Do this task: Supply External Power, TASK 24-22-00-860-813.

SUBTASK 26-21-00-010-005

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSER: RETRACT THE LEADING EDGE, DO THE DEACTIVATION PROCEDURES FOR THE LEADING EDGE AND THE THRUST REVERSER (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANELS. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (2) For the left thrust reverser, do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

SUBTASK 26-21-00-860-006

- (3) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT

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(Continued)

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-00-860-007

- (4) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
D	15	C01401	LANDING GEAR AIR/GND RELAY
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6

E. Make sure the engine fuel is stopped

SUBTASK 26-21-00-860-008

- (1) Make sure the START SWITCH for each engine is in the OFF position.

SUBTASK 26-21-00-860-009

- (2) Set the engine 1 (2) fuel switch to IDLE.

- (a) Make sure the engine 1 (2) SPAR VALVE CLOSED light on the P5 panel comes on bright, then goes out.
 - (b) Make sure the engine 1 (2) ENG VALVE CLOSED light on the P5 panel comes on bright.

SUBTASK 26-21-00-860-029

- (3) Pull the engine 1 (2) fire handle on the P8 panel.

- (a) Make sure the fire handle does not extend.

SUBTASK 26-21-00-860-010

- (4) Push the manual override button and pull the engine 1 (2) fire handle on the P8 panel.



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- (a) Make sure the engine 1 (2) SPAR VALVE CLOSED light on the P5 panel comes on bright while the valve is in transition, then goes dim.
- (b) Make sure the engine 1 (2) ENG VALVE CLOSED light on the P5 panel goes dim.

SUBTASK 26-21-00-860-011

- (5) Push in the engine 1 (2) fire handle on the P8 panel to the normal position.

SUBTASK 26-21-00-860-012

- (6) Set the engine 1 (2) fuel switch to CUTOFF.

F. Make sure the hydraulic power shuts off

SUBTASK 26-21-00-860-013

- (1) Push the manual override button and pull the engine 1 (2) fire handle on the P8 panel.
 - (a) Make sure the engine 1 (2) hydraulic system A (B) fluid shutoff valve, V33 (V34) moves to the closed position.(Figure 504)

SUBTASK 26-21-00-860-014

- (2) Push in the engine 1 (2) fire handle on the P8 panel to the normal position.

G. Make sure the Bleed Air shuts off

SUBTASK 26-21-00-860-039

- (1) Set the BLEED air switch for the applicable engine ON.

SUBTASK 26-21-00-860-015

- (2) Push the manual override button and pull the engine 1 (2) fire handle on the P8 panel.
 - (a) Make sure the engine 1 (2) bleed air regulator solenoid closes by listening or feeling it click.(Figure 505)

SUBTASK 26-21-00-860-016

- (3) Push in the engine 1 (2) fire handle on the P8 panel to the normal position.

SUBTASK 26-21-00-860-040

- (4) Set the BLEED air switch for the applicable engine OFF.

H. Make sure the electrical power shuts down

SUBTASK 26-21-00-020-007

- (1) Disconnect the electrical connector DP1206 from the engine 1 (2) Integrated Drive Generator.

SUBTASK 26-21-00-860-030

- (2) Set the GEN CONT switch on the P5-4 panel OFF.

- (a) Make sure the resistance between pins 3 (LO) and 2 (HI) on DP1206 is less than 10 ohms.

SUBTASK 26-21-00-860-031

- (3) Set the GEN CONT switch on the P5-4 panel ON.

- (a) Make sure the resistance between pins 3 (LO) and 2 (HI) on DP1206 is at least 230 kohms.

SUBTASK 26-21-00-860-018

- (4) Push the manual override button and pull the engine 1 (2) fire handle on the P8 panel.

- (a) Make sure the resistance between pins 3 (LO) and 2 (HI) on DP1206 is less than 10 ohms after 5 seconds.

SUBTASK 26-21-00-860-019

- (5) Push in the engine 1 (2) fire handle on the P8 panel to the normal position.

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SUBTASK 26-21-00-420-006

- (6) Connect the electrical connector DP1206 to the engine 1 (2) Integrated Drive Generator.

I. Make sure the thrust reversers deactivate

SUBTASK 26-21-00-010-006

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Close the Thrust Reverser (Selection), TASK 78-31-00-010-804-F00.

SUBTASK 26-21-00-860-020

- (2) Do this task: Hydraulic System A or B Pressurization, TASK 29-11-00-860-801.

SUBTASK 26-21-00-860-021

- (3) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	5	C00276	ENGINE 1 THRUST REVERSER CONT

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	7	C00277	ENGINE 2 THRUST REVERSER CONT

SUBTASK 26-21-00-860-032

- (4) Set the ENG START switch to CONT.

NOTE: Setting the ENG START switch to CONT applies power to the EEC. It is not necessary to apply power to the EEC to extend and retract the thrust reverser. However, if the EEC is not powered, the reverse thrust lever will be blocked by the interlock and will not move to the full reverse thrust position. Thus, the REV light will not indicate the sleeve position.

SUBTASK 26-21-00-860-022

- (5) Push the manual override button and pull the engine 1 (2) fire handle on the P8 panel.

SUBTASK 26-21-00-860-023

WARNING: MAKE SURE THERE ARE NO PERSONS OR EQUIPMENT IN THE AREA AROUND THE THRUST REVERSER SLEEVES. THIS WILL PREVENT INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (6) Move the engine 1 (2) reverse thrust lever up and aft to the extend position.

- (a) Make sure the thrust reverser does not extend.

SUBTASK 26-21-00-860-024

- (7) Move the engine 1 (2) reverse thrust lever down and forward to the retract position.

SUBTASK 26-21-00-860-025

- (8) Push in the engine 1 (2) fire handle on the P8 panel to the normal position.

SUBTASK 26-21-00-860-026

WARNING: MAKE SURE THERE ARE NO PERSONS OR EQUIPMENT IN THE AREA AROUND THE THRUST REVERSER SLEEVES. THIS WILL PREVENT INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (9) Move the engine 1 (2) reverse thrust lever up and aft to the extend position.

EFFECTIVITY
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- (a) Make sure the thrust reverser extends.

SUBTASK 26-21-00-860-027

- (10) Move the engine 1 (2) reverse thrust lever down and forward to the retract position.

- (a) Make sure the thrust reverser retracts.

SUBTASK 26-21-00-860-033

- (11) Set the ENG START switch to OFF.

SUBTASK 26-21-00-860-028

- (12) Do this task: Hydraulic System A or B Power Removal, TASK 29-11-00-860-805.

SUBTASK 26-21-00-860-034

- (13) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	19	C00388	FIRE PROTECTION DET OVHT WW WING BODY
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

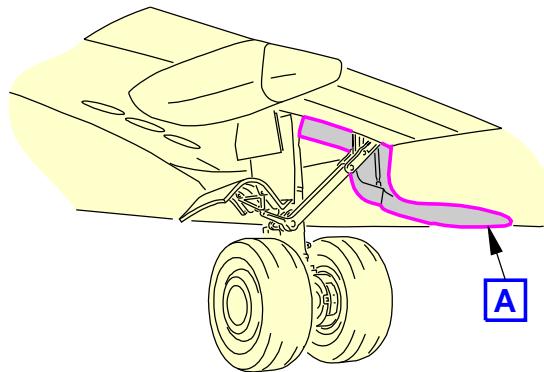
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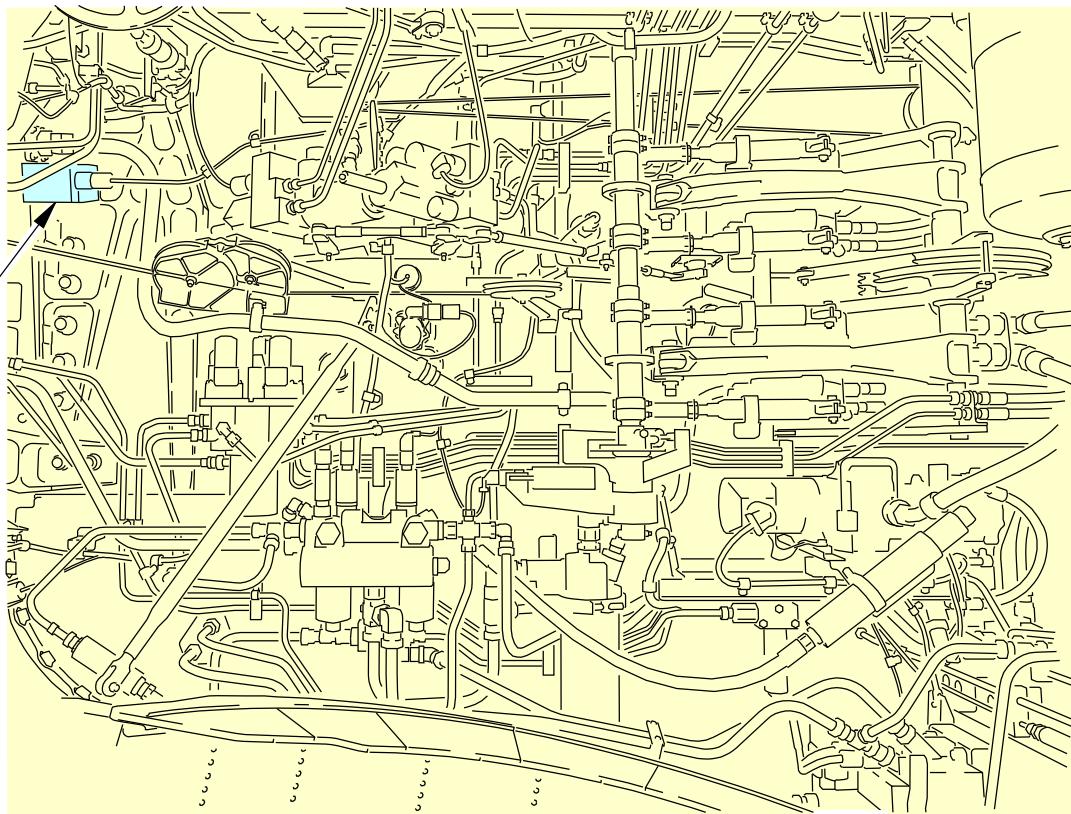
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SHUTOFF
VALVE, V33



MAIN LANDING GEAR WHEEL WELL
(LEFT SIDE)

A

G20383 S0006568248_V3

Engine EDP Shutoff Valve Test
Figure 504/26-21-00-990-803 (Sheet 1 of 2)

EFFECTIVITY
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26-21-00

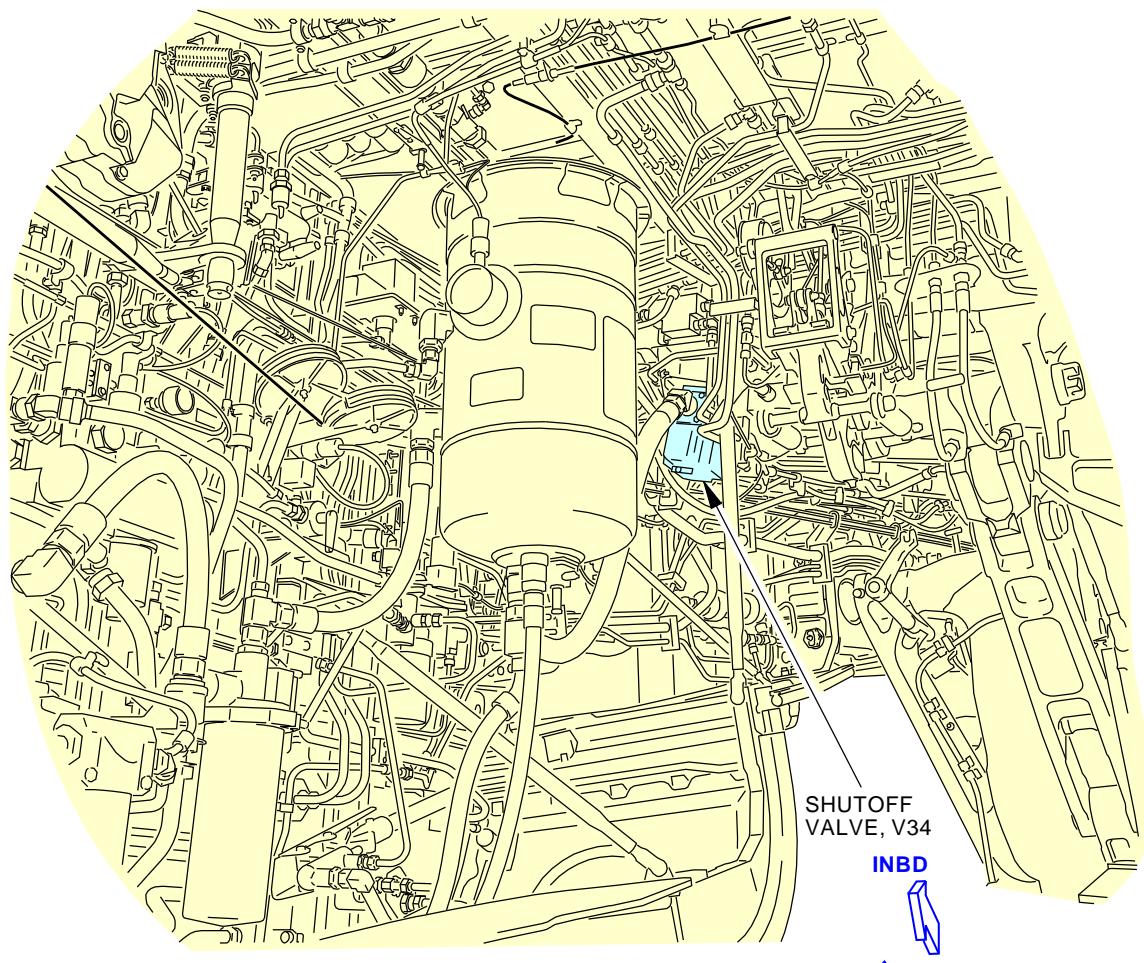
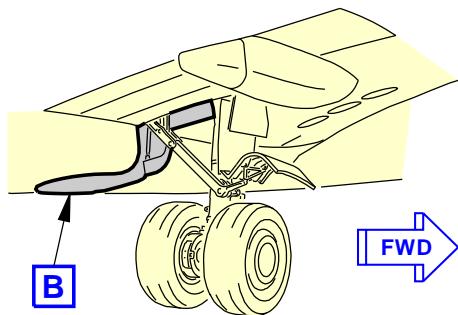
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AIRCRAFT MAINTENANCE MANUAL



MAIN LANDING GEAR WHEEL WELL
(RIGHT SIDE)



H50915 S0006568249_V3

Engine EDP Shutoff Valve Test
Figure 504/26-21-00-990-803 (Sheet 2 of 2)

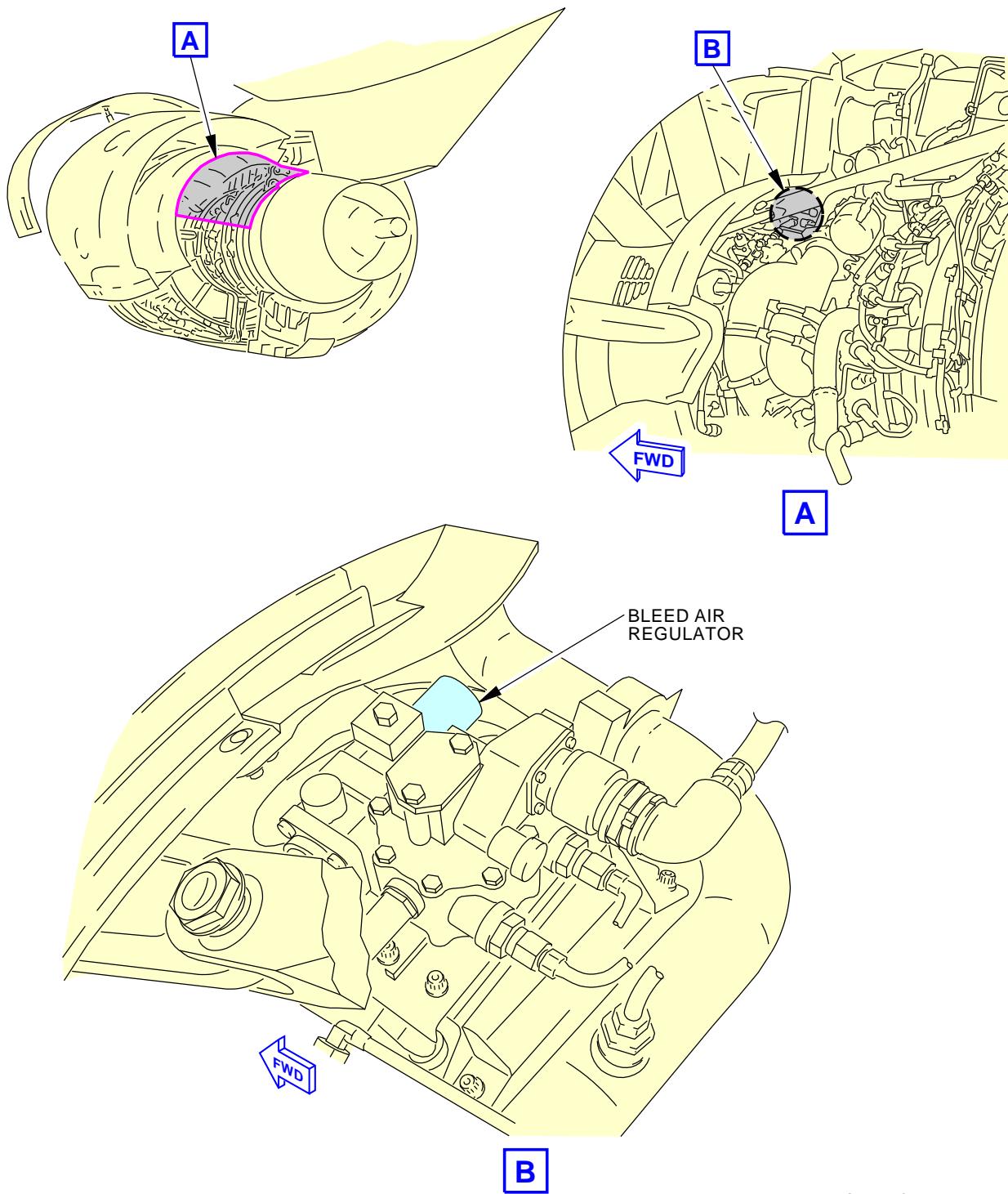
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G20385 S0006568250_V2

Engine Bleed Air Regulator Test
Figure 505/26-21-00-990-804EFFECTIVITY
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ENGINE FIRE EXTINGUISHING BOTTLE - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A removal of an engine fire extinguishing bottle.
 - (2) An installation of an engine fire extinguishing bottle.

TASK 26-21-01-000-801

2. Engine Fire Extinguishing Bottle Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to remove the Engine Fire Extinguishing Bottle.
- (2) The engine fire extinguishing bottles are installed in the main landing gear wheel well. The removal procedure is the same for each bottle.

B. References

Reference	Title
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Engine Fire Extinguishing Bottle Removal

SUBTASK 26-21-01-940-001

WARNING: MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED ON ALL THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT. THIS CAN CAUSE INJURIES TO PERSONS, AND DAMAGE TO EQUIPMENT.

- (1) If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.

SUBTASK 26-21-01-860-001

- (2) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-01-020-001

- (3) Disconnect the electrical connectors [6] from the squibs [7].

EFFECTIVITY
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SUBTASK 26-21-01-020-002

WARNING: PUT A PROTECTIVE CAP ON THE SQUIB. IF YOU DO NOT PUT A PROTECTIVE CAP ON THE SQUIB, THE FIRE EXTINGUISHING BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

- (4) Install a protective cap [8] on each squib [7].

SUBTASK 26-21-01-020-003

- (5) Disconnect the electrical connector [5] from the pressure switch.

SUBTASK 26-21-01-020-004

- (6) Remove the discharge line from both fire bottle discharge outlets.

NOTE: Loosen other fittings as necessary to move the discharge lines out of the way.

SUBTASK 26-21-01-420-004

- (7) Install the protective caps on each of the discharge ports.
- (8) Install the protective caps on each of the discharge tubes.

SUBTASK 26-21-01-020-005

- (9) Remove the four bolts [2] and washers [3].

SUBTASK 26-21-01-020-006

WARNING: BE CAREFUL WHEN YOU MOVE THE FIRE EXTINGUISHING BOTTLE. THE FIRE EXTINGUISHING BOTTLE IS HIGHLY PRESSURIZED AND HAS AN EXPLOSIVE CARTRIDGE AS A COMPONENT. ACCIDENTAL DISCHARGE OF THE FIRE EXTINGUISHING BOTTLE CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

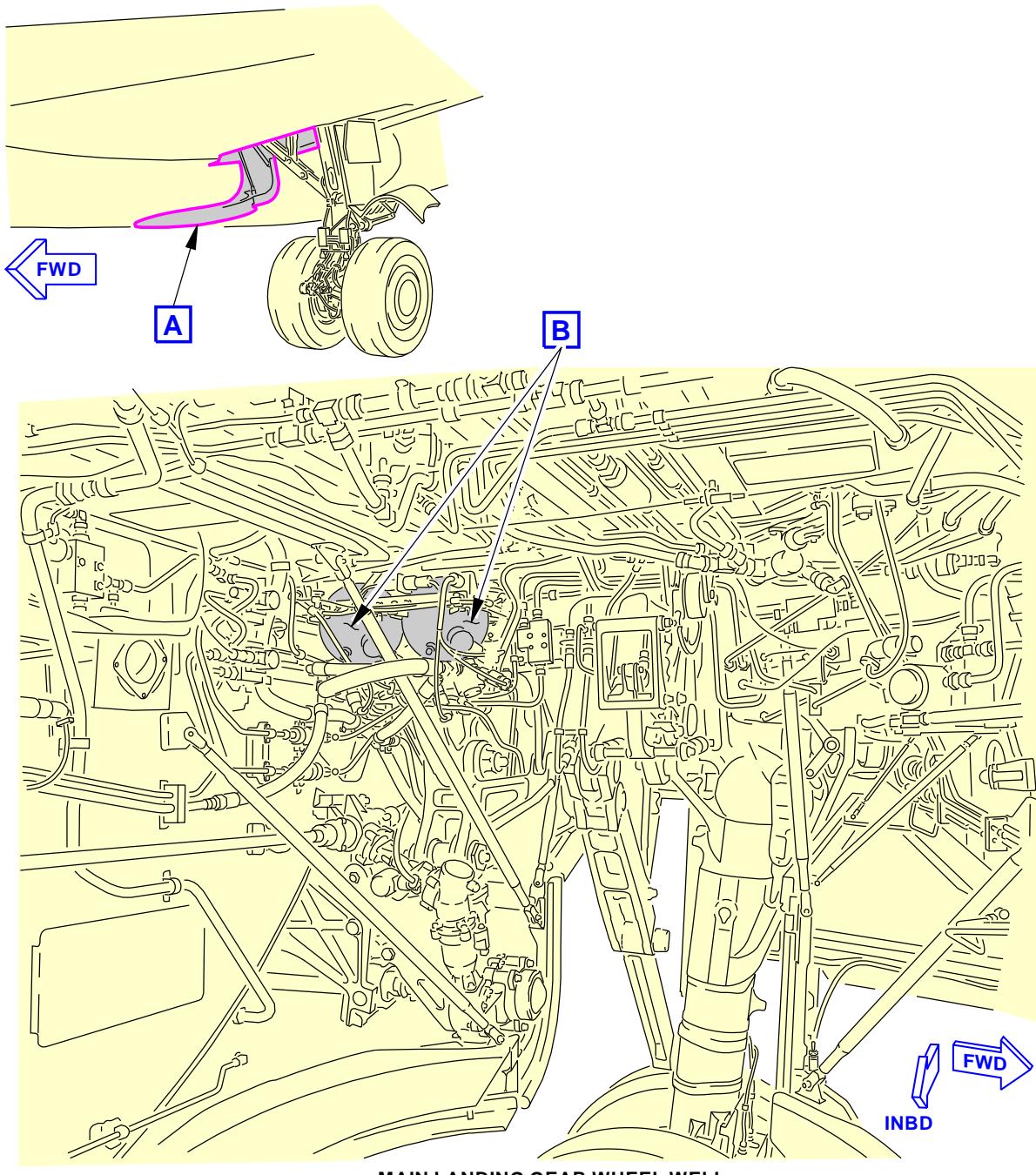
- (10) Remove the applicable fire extinguishing bottle [1].

———— END OF TASK ————

EFFECTIVITY

AKS ALL

26-21-01

MAIN LANDING GEAR WHEEL WELL
(LEFT SIDE)

A

F60123 S0006568254_V2

Engine Fire Extinguishing Bottle Installation
Figure 401/26-21-01-990-801 (Sheet 1 of 3)

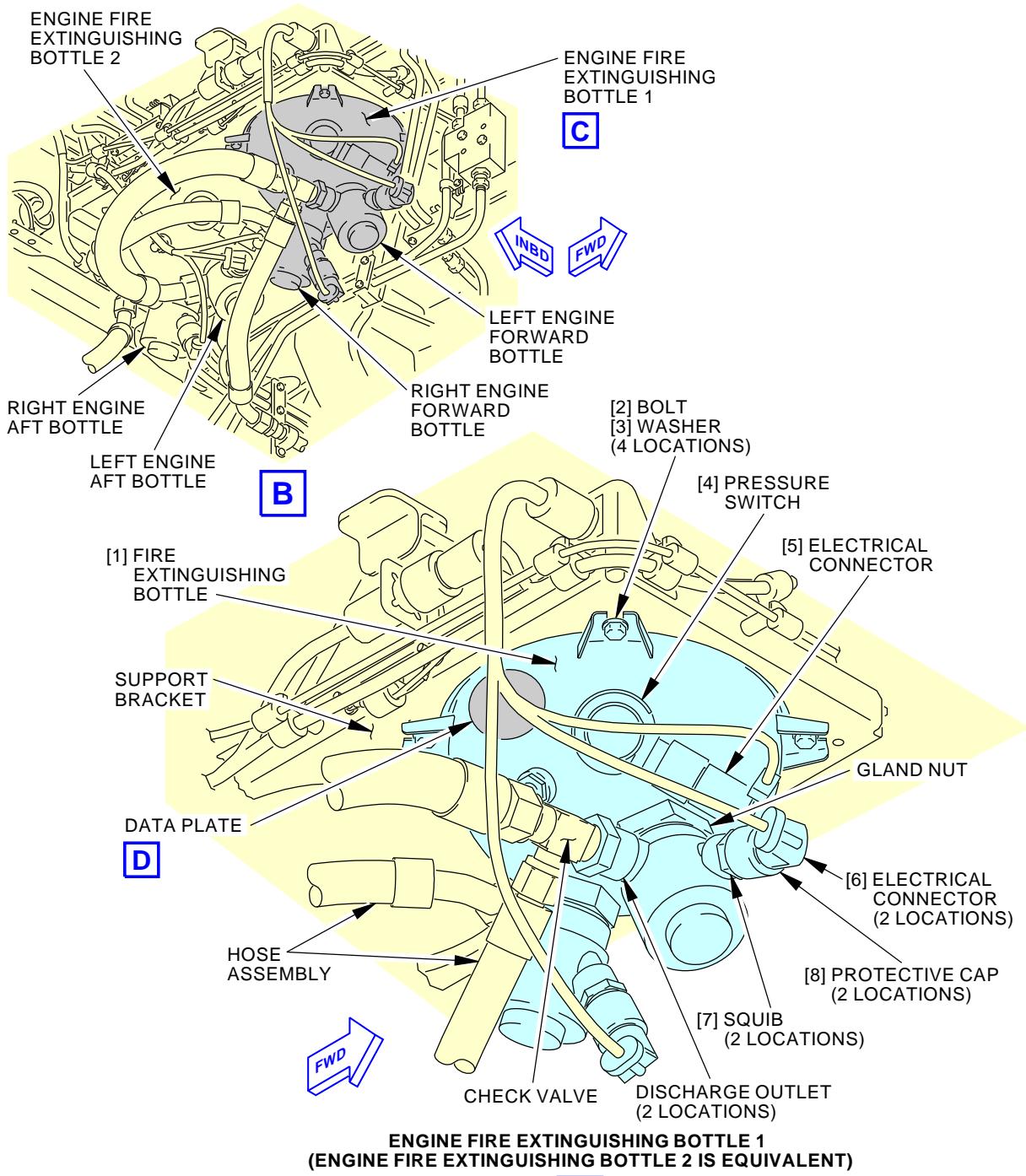
EFFECTIVITY
AKS ALL

26-21-01

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737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



F60166 S0006568255_V4

Engine Fire Extinguishing Bottle Installation
Figure 401/26-21-01-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

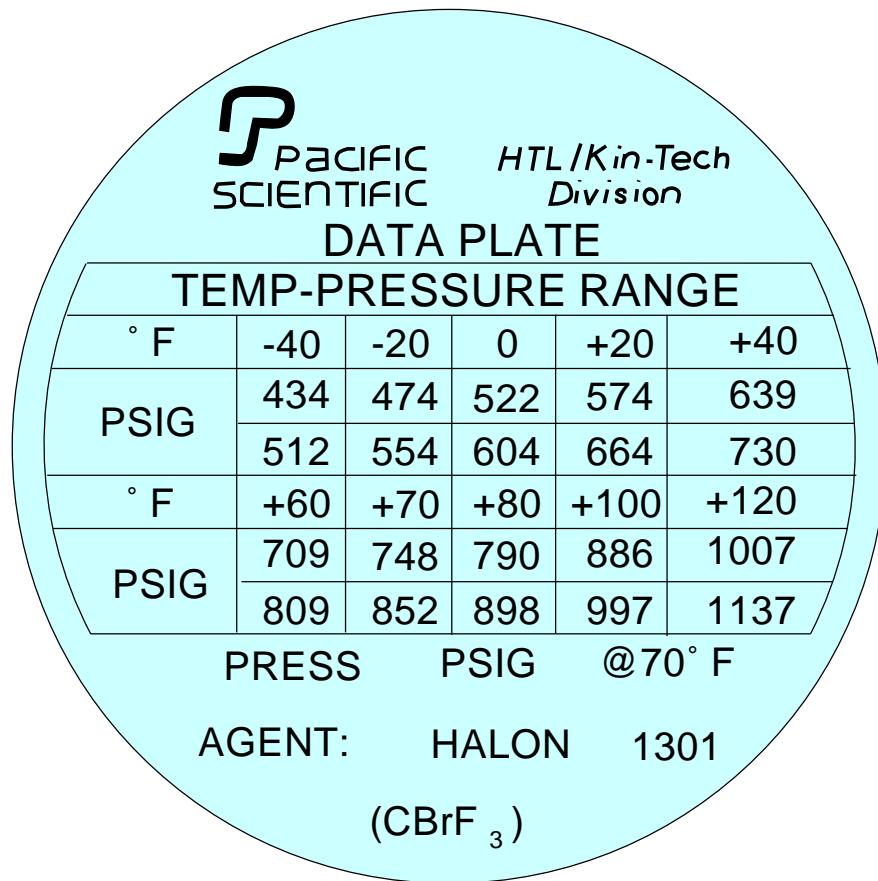
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D633A101-AKS

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737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



DATA PLATE

D

1373174 S0000248697_V2

Engine Fire Extinguishing Bottle Installation
Figure 401/26-21-01-990-801 (Sheet 3 of 3)

EFFECTIVITY
AKS ALL

26-21-01

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AIRCRAFT MAINTENANCE MANUAL

TASK 26-21-01-400-801

3. Engine Fire Extinguishing Bottle Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to install the Engine Fire Extinguishing Bottle.
- (2) The engine fire extinguishing bottle is installed in the left main wheel well. The installation procedure is the same for each bottle.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-814	Remove External Power (P/B 201)
26-20-00-210-802	Engine Fire Extinguishing Bottle Check (P/B 601)
26-21-00-720-801	Engine Fire Extinguishing Discharge Line Flow Test (P/B 501)
26-21-00-730-802	Engine Fire Extinguishing Bottle Pressure Switch Circuit Test (P/B 501)
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meters - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536



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AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Description
COM-4907	Force Gauge With Resolution of 0.10 lb, +/-0.3% or better Part #: FDIX 100 Supplier: 0BFD9 Part #: FDIX 50 Supplier: 0BFD9 Part #: LG-5KG Supplier: 92456 Part #: PS-10 Supplier: 1GHM7 Opt Part #: FDI 100 Supplier: 0BFD9 Opt Part #: FDI 50 Supplier: 0BFD9 Opt Part #: FDV 100 Supplier: 0BFD9 Opt Part #: FDV 50 Supplier: 0BFD9
STD-1079	Resistor - 10K Ohm or Greater

D. Consumable Materials

Reference	Description	Specification
B00083	Solvent - VM&P Naphthas	ASTM D-3735 Type III
D50004	Compound - Antiseize	BMS3-28
G01048	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G50136	Compound - Corrosion Inhibiting, Non-drying	BMS3-38
G50237	Compound - Corrosion Inhibiting, Non-drying - Cor-Ban 27L	BMS3-38, NSN 6850-01-469-7645

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Fire extinguishing bottle	26-21-01-045	AKS ALL
7	Squib	26-21-60-01-055	AKS ALL
		26-21-60-01-060	AKS ALL
8	Protective cap	26-21-60-01-056	AKS ALL
		26-21-60-01-057	AKS ALL
		26-21-60-01-062	AKS ALL
		26-21-60-01-064	AKS ALL

F. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
211	Flight Compartment - Left
212	Flight Compartment - Right

G. Engine Fire Extinguishing Bottle Installation

SUBTASK 26-21-01-940-002

WARNING: MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED ON ALL THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT. THIS CAN CAUSE INJURIES TO PERSONS, AND DAMAGE TO EQUIPMENT.

- (1) If the downlock pins are not installed in the nose and main landing gear, then do this task:
Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.

SUBTASK 26-21-01-280-001

- (2) Use the force gauge, COM-4907 to weigh the bottle.

EFFECTIVITY
AKS ALL

26-21-01



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- (3) Make sure that the weight of the bottle is ± 0.10 pound (0.05 kg) from the weight listed on the bottle data plate.

NOTE: The bottle assembly includes the charged bottle, discharge heads, cartridge and electrical bonding tab with stud wire locked in place. Remove all protective caps before weighing. The explosive cartridge must be capped when handling the bottle assembly, except at weighing.

SUBTASK 26-21-01-200-001

- (4) If the previous bottle was discharged, do this step:

- (a) Check the discharge tube for any debris.

NOTE: Pay particular attention to the discharge outlets at the engine.

SUBTASK 26-21-01-200-002

- (5) Examine the check valve to make sure the ball moves freely.

NOTE: It may be necessary to further disconnect the discharge tubes to get access to the check valve.

SUBTASK 26-21-01-860-002

- (6) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-01-420-001

WARNING: REMOVE THE METAL CAP FROM THE FILL FITTING ASSEMBLY ON THE ENGINE FIRE EXTINGUISHER BOTTLES. THE SAFETY RELEASE ON THE BOTTLE WILL NOT OPERATE IF METAL CAPS ARE INSTALLED.

- (7) Do these steps to install the bottle:

- (a) Make sure the fire extinguisher bottle and support fixture mounting surfaces are clean.

WARNING: BE CAREFUL WHEN YOU MOVE THE FIRE EXTINGUISHING BOTTLE. THE FIRE EXTINGUISHING BOTTLE IS HIGHLY PRESSURIZED AND HAS AN EXPLOSIVE CARTRIDGE AS A COMPONENT. ACCIDENTAL DISCHARGE OF THE FIRE EXTINGUISHING BOTTLE CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (b) Put the fire extinguishing bottle [1] in its correct position on the support bracket.

- (c) Install the bolts [2] and washers [3].

- (d) Do a check of the resistance between the fire extinguishing bottle [1] and the support bracket with an intrinsically safe approved bonding meter, COM-1550.

- 1) Make sure the resistance is not more than 0.0025 ohm.

- 2) If the resistance is more than 0.0025 ohm, clean the bonding surfaces between the fire extinguishing bottle [1] and the support bracket with solvent, B00083, and retest.

- (e) Do this task: Engine Fire Extinguishing Discharge Line Flow Test, TASK 26-21-00-720-801.

- (f) If the discharge head does not align with the hose assembly, do these steps:

EFFECTIVITY
AKS ALL

26-21-01



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AIRCRAFT MAINTENANCE MANUAL

- 1) Loosen the discharge outlet gland nut and rotate the discharge port so it aligns with the tube assembly.
 - 2) Tighten the gland nut to 540 in-lb (61 N·m) – 660 in-lb (75 N·m).
 - 3) Install MS20995C32 lockwire, G01048, on the gland nut.
- (g) Remove the protective caps from each of the discharge ports.
- (h) Remove the protective caps from each of the discharge tubes.

WARNING: USE NITRILE GLOVES FOR SKIN PROTECTION WHEN YOU USE COR-BAN 27L, G50237. IF IT GETS ON YOUR SKIN, IMMEDIATELY REMOVE IT WITH WATER. IF THIS MATERIAL GETS IN YOUR EYES, IMMEDIATELY FLUSH YOUR EYES WITH WATER. GET MEDICAL AID. THIS MATERIAL CONTAINS FLAMMABLE AGENTS WHICH CAN CAUSE INJURIES TO PERSONNEL.

- (i) Apply a layer of compound, D50004, (preferred) to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.
- 1) The Cor-Ban 27L Compound, G50237, or corrosion inhibiting compound, G50136, are also acceptable alternatives as anti-corrosion compounds to use in this location.
- (j) Connect the tube assembly to the discharge head.
- NOTE:** Yellow is used to show the plumbing which supplies extinguishing agent to engine number 1. Blue is used to show the plumbing which supplies extinguishing agent to engine number 2.
- (k) Remove any unwanted compound.
- (l) Tighten the nut to 342 in-lb (38.6 N·m) to 378 in-lb (42.7 N·m) on the tube assembly.

SUBTASK 26-21-01-710-001

- (8) Do these steps to connect the electrical connector [6] to the squib [7].

WARNING: DO NOT TOUCH THE SQUIB BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (a) Before you touch the squib, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:
- ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
 - ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.
- (b) Remove the protective cap [8] from the squib [7].

SUBTASK 26-21-01-700-001

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (9) Do this to make sure that there is no stray voltage at the electrical squib connector:

Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

EFFECTIVITY
AKS ALL

26-21-01



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- (a) Connect the digital/analog multimeter, COM-1793, across the two pins.
- (b) Make sure that the current is less than 5 mA.
- (c) Connect a resistor, STD-1079, across the multimeter probes.
- (d) Make sure that the voltage is less than .250 V.
- (e) If necessary, repeat the steps above for the other squib electrical connectors.
- (f) Disconnect the multimeter.

SUBTASK 26-21-01-420-003

- (10) Connect the electrical connector [6] to the squib [7].

NOTE: The squib pins can cause damage to the electrical connector if the pins do not correctly engage the connector.

SUBTASK 26-21-01-420-002

- (11) Do this task to test the electrical wiring up to the pressure switch: Engine Fire Extinguishing Bottle Pressure Switch Circuit Test, TASK 26-21-00-730-802.
- (12) Connect the electrical connector [5] to the pressure switch.
- (13) Do this visual check of the pressure gauge: Engine Fire Extinguishing Bottle Check, TASK 26-20-00-210-802.

H. Engine Fire Extinguishing Bottle Installation Test

SUBTASK 26-21-01-860-003

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-01-741-001

- (2) Set the EXT TEST switch on the P8-1 panel to 1.
 - (a) Make sure the L and R lights come on.

NOTE: The APU light will also come on.

SUBTASK 26-21-01-741-002

- (3) Set the EXT TEST switch on the P8-1 panel to 2.
 - (a) Make sure the L and R lights come on.

NOTE: The APU light will also come on.

SUBTASK 26-21-01-741-003

- (4) Release the EXT TEST switch.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 26-21-01-040-001

- (1) Do this task: Remove External Power, TASK 24-22-00-860-814.

———— END OF TASK ————



26-21-01



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AIRCRAFT MAINTENANCE MANUAL

ENGINE FIRE EXTINGUISHING SYSTEM - INSPECTION/CHECK

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has an inspection of these items:
 - (1) Engine Fire Bottle.
 - (2) Engine fire extinguisher discharge tubes.

TASK 26-21-01-210-801

2. Engine Fire Extinguishing System Inspection

(Figure 601)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
78-31-00-010-801-F00	Open the Thrust Reverser (Selection) (P/B 201)
78-31-00-010-804-F00	Close the Thrust Reverser (Selection) (P/B 201)

B. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
413	Engine 1 - Fan Cowl, Left
414	Engine 1 - Fan Cowl, Right
415	Engine 1 - Thrust Reverser, Left
416	Engine 1 - Thrust Reverser, Right
423	Engine 2 - Fan Cowl, Left
424	Engine 2 - Fan Cowl, Right
425	Engine 2 - Thrust Reverser, Left
426	Engine 2 - Thrust Reverser, Right

C. Prepare for Inspection

SUBTASK 26-21-01-010-001

WARNING: DO THESE SPECIFIED TASKS IN THE CORRECT SEQUENCE BEFORE YOU OPEN THE THRUST REVERSERS: RETRACT THE LEADING EDGE, DO THE DEACTIVATION PROCEDURES FOR THE LEADING EDGE AND THE THRUST REVERSERS (FOR GROUND MAINTENANCE), AND OPEN THE FAN COWL PANELS. IF YOU DO NOT OBEY THE ABOVE SEQUENCE, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Open the Thrust Reverser (Selection), TASK 78-31-00-010-801-F00.

D. Procedure

SUBTASK 26-21-01-210-001

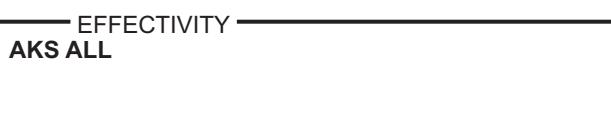
- (1) Make sure the fire bottles are not damaged.

SUBTASK 26-21-01-210-002

- (2) Make sure the extinguisher tubes are not damaged.

SUBTASK 26-21-01-210-003

- (3) Make sure the tubing outlets are free of obstructions.



26-21-01



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E. Put the Airplane Back to Its Usual Condition

SUBTASK 26-21-01-010-002

WARNING: OBEY THE INSTRUCTIONS IN THE PROCEDURE TO CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do this task: Close the Thrust Reverser (Selection), TASK 78-31-00-010-804-F00.

———— END OF TASK ————

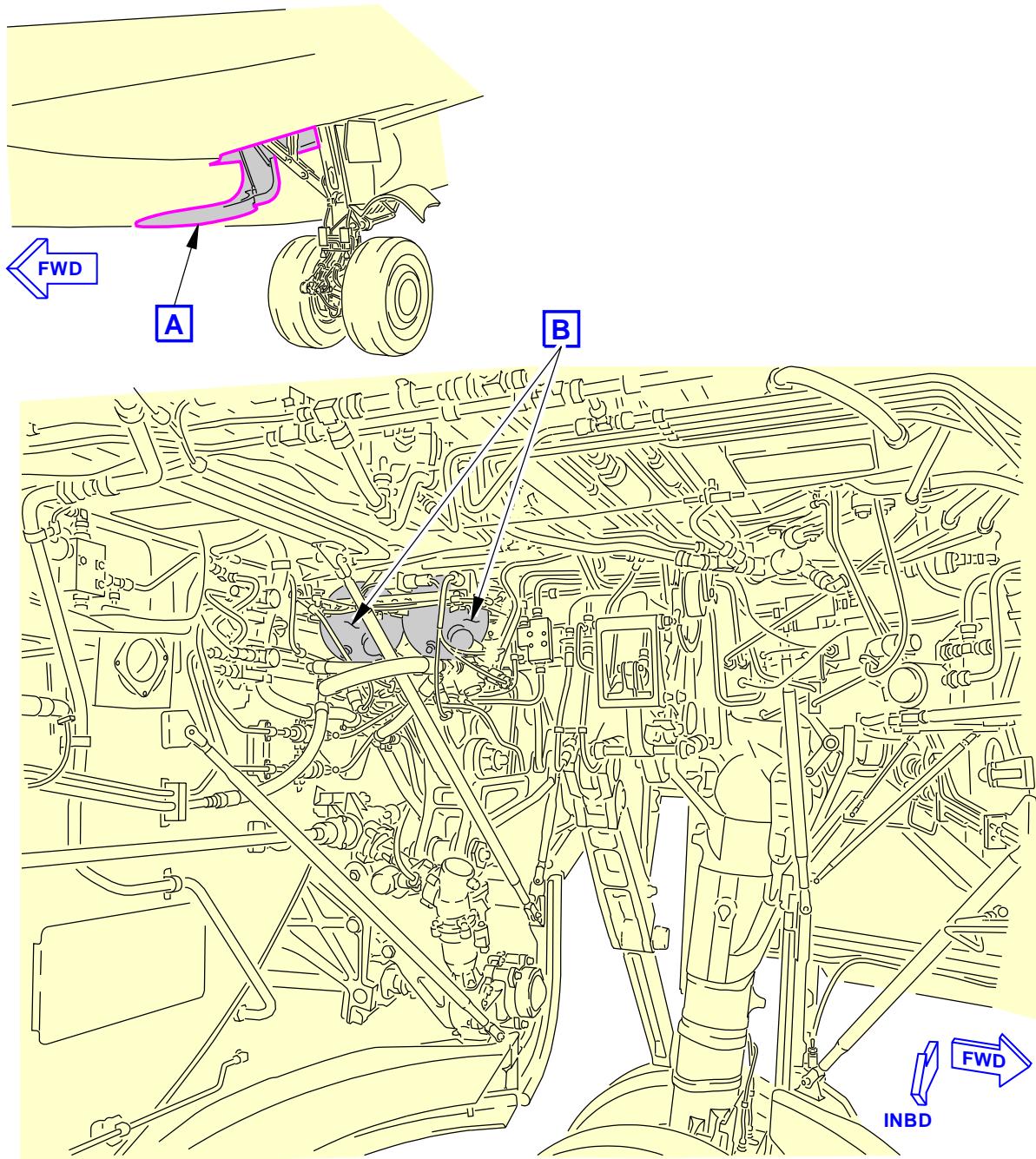
EFFECTIVITY
AKS ALL

26-21-01

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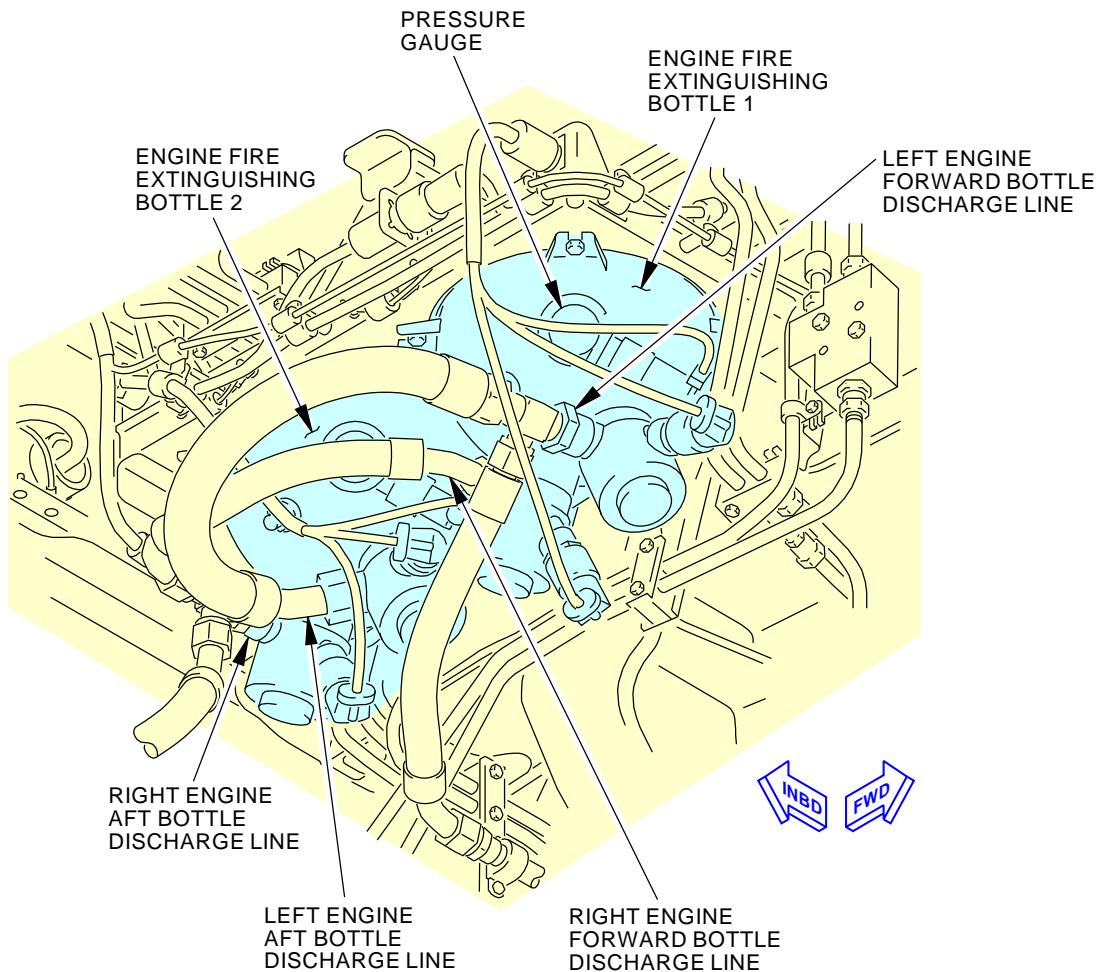
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MAIN LANDING GEAR WHEEL WELL
(LEFT SIDE)

A

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Engine Fire Extinguishing Bottle Inspection
Figure 601/26-21-01-990-803 (Sheet 1 of 4)EFFECTIVITY
AKS ALL**26-21-01**



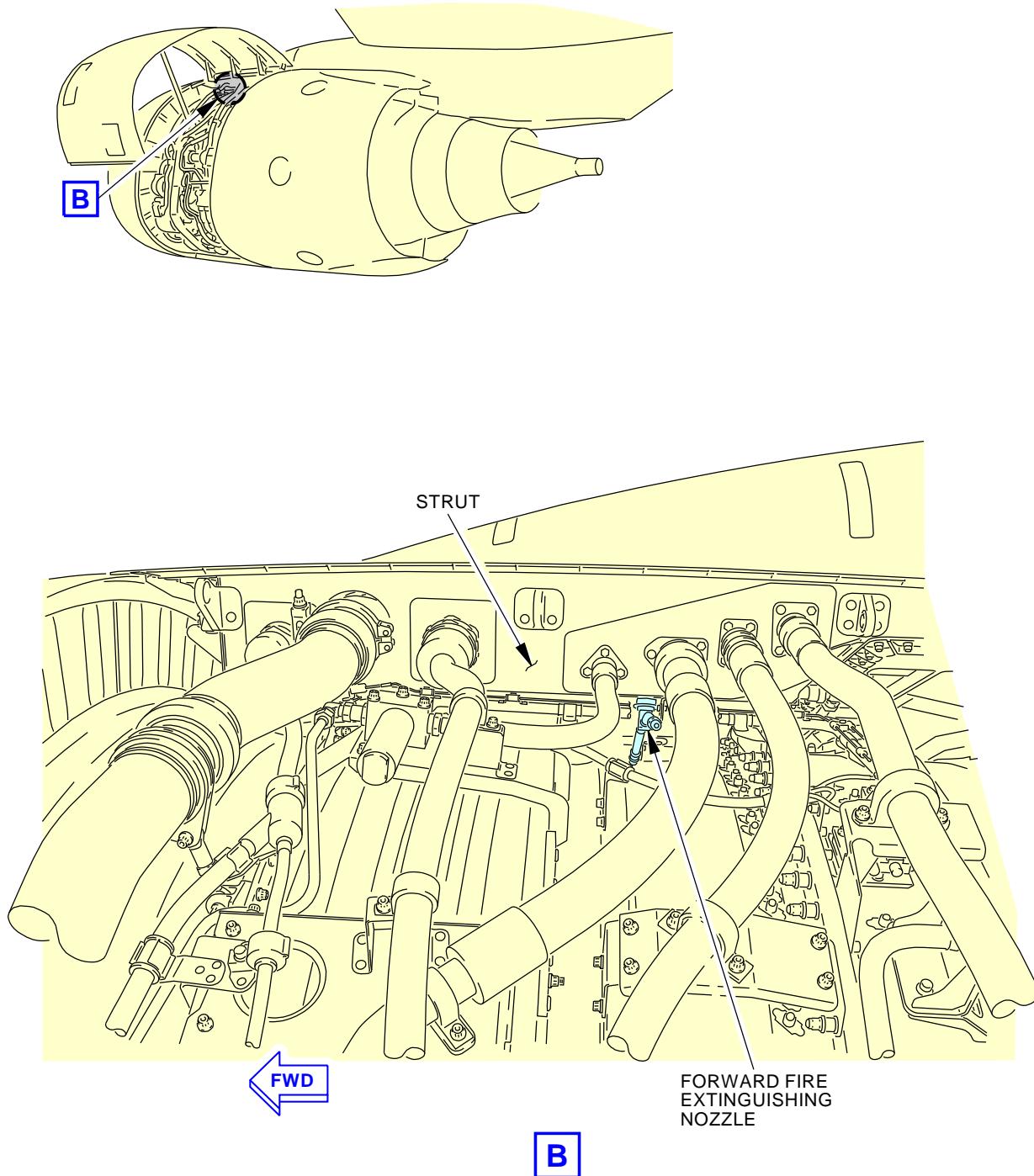
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H58755 S0006568260_V3

Engine Fire Extinguishing Bottle Inspection
Figure 601/26-21-01-990-803 (Sheet 2 of 4)EFFECTIVITY
AKS ALL**26-21-01**



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AIRCRAFT MAINTENANCE MANUAL



G28064 S0006568244_V3

Engine Fire Extinguishing Bottle Inspection
Figure 601/26-21-01-990-803 (Sheet 3 of 4)

EFFECTIVITY
AKS ALL

26-21-01

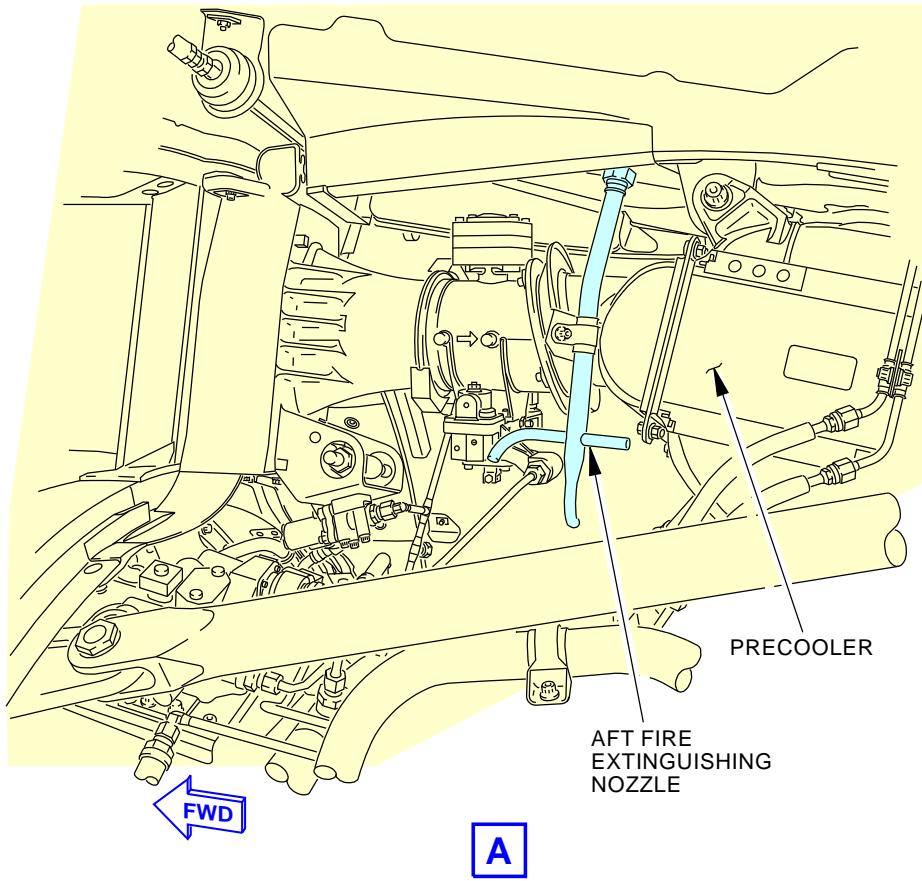
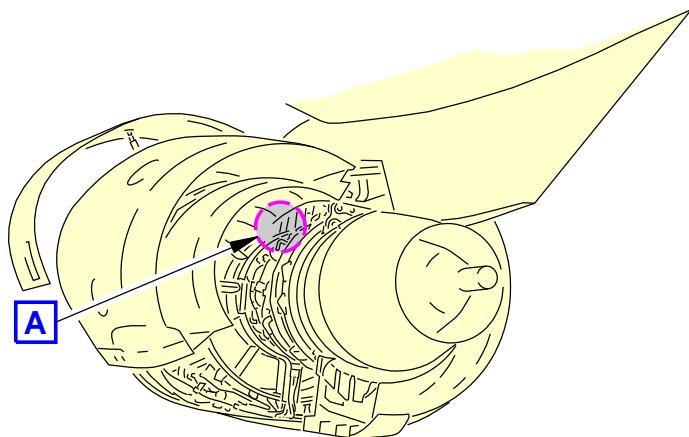
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G28137 S0006568243_V3

Engine Fire Extinguishing Bottle Inspection
Figure 601/26-21-01-990-803 (Sheet 4 of 4)

EFFECTIVITY
AKS ALL

D633A101-AKS

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AIRCRAFT MAINTENANCE MANUAL

ENGINE FIRE EXTINGUISHER BOTTLE SQUIB - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Removal of the engine fire extinguisher squib.
 - (2) Installation of the engine fire extinguisher squib.

TASK 26-21-02-000-801

2. Engine Fire Extinguisher Bottle Squib Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) The squibs are installed on the engine fire extinguishing bottles, located in the main landing gear wheel well. The removal procedure is the same for each squib, but each squib has a unique location and they are not interchangeable.
- (2) This task gives instructions to remove the Engine Fire Extinguisher Bottle Squib.

B. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Prepare for the Removal

SUBTASK 26-21-02-860-006

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

D. Engine Fire Extinguisher Bottle Squib Removal

SUBTASK 26-21-02-020-001

- (1) Disconnect the applicable electrical connector [1] from squib [2] or squib [3].

NOTE: The squibs are not interchangeable and each squib has a unique location on the discharge port.

SUBTASK 26-21-02-480-001

WARNING: PUT A PROTECTIVE CAP ON THE SQUIB. IF YOU DO NOT PUT A PROTECTIVE CAP ON THE SQUIB, THE FIRE EXTINGUISHING BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

- (2) Put a protective cap on the squib.

EFFECTIVITY	AKS ALL
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26-21-02



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 26-21-02-020-003

- (3) Remove the squib from the discharge head.

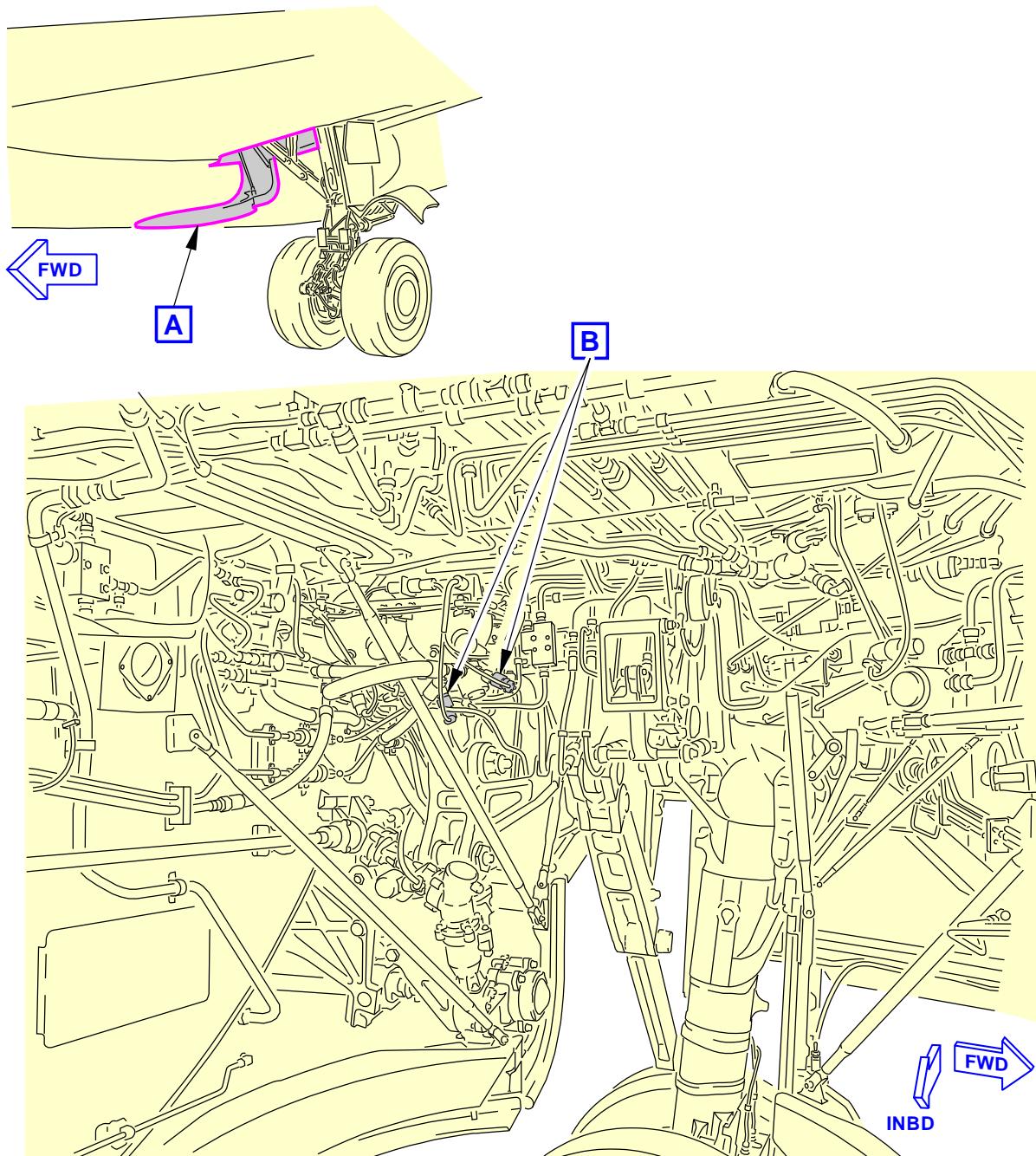
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EFFECTIVITY
AKS ALL

26-21-02

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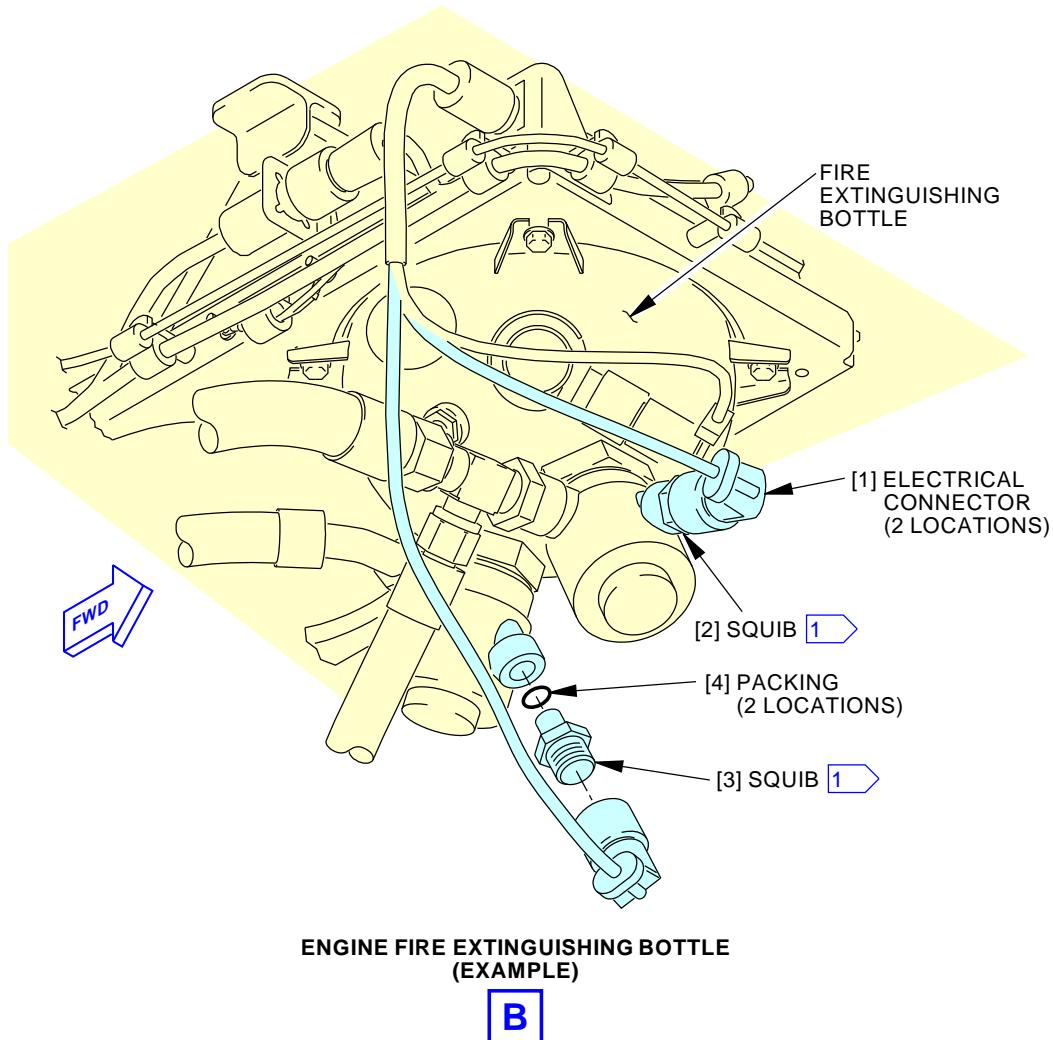
MAIN LANDING GEAR WHEEL WELL
(LEFT SIDE)

A

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Engine Fire Extinguishing Bottle Squib Installation
Figure 401/26-21-02-990-801 (Sheet 1 of 2)EFFECTIVITY
AKS ALL**26-21-02**

D633A101-AKS



1 EACH SQUIB HAS A UNIQUE LOCATION AND
THEY ARE NOT INTERCHANGEABLE.

F70370 S0006568266_V4

Engine Fire Extinguishing Bottle Squib Installation
Figure 401/26-21-02-990-801 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

26-21-02

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TASK 26-21-02-400-801

3. Engine Fire Extinguisher Bottle Squib Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) The squibs are installed on the engine fire extinguishing bottles, found in the left main wheel well. The installation procedure is the same for each squib, but each squib has a unique location and they are not interchangeable.
- (2) This task gives instructions to install the Engine Fire Extinguisher Bottle Squib.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-814	Remove External Power (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536
STD-1079	Resistor - 10K Ohm or Greater

D. Consumable Materials

Reference	Description	Specification
D00652	Lubricant - O-Ring - Parker Super-O-Lube	
D50287	Lubricant - O-Ring, Drilube 822	MMS-N306A
G02392 [P05-262]	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8121 mm) Diameter	NASM20995

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Packing	26-21-60-01-050	AKS ALL

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F. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
211	Flight Compartment - Left
212	Flight Compartment - Right

G. Prepare for the Installation

SUBTASK 26-21-02-860-007

- (1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

H. Engine Fire Extinguisher Bottle Squib Installation

SUBTASK 26-21-02-420-001

- (1) Do these steps to install squib [2] or squib [3] into the discharge port of the fire extinguishing bottle:

NOTE: The squibs are not interchangeable and each squib has a unique location on the discharge port.

WARNING: DO NOT TOUCH THE SQUIB BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (a) Before you touch the squib, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:
 - ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
 - ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.
- (b) Lubricate a new packing [4] with O-ring lubricant, D50287 or Parker Super-O-Lube lubricant, D00652 and put it on the squib.
- (c) Install the squib into the fire bottle.
 - 1) Torque the squib to 90 in-lb (10.2 N·m) - 100 in-lb (11.3 N·m).
 - 2) Install MS20995C32 lockwire, G02392 [P05-262], between the squib and discharge outlet.
- (d) Remove the protective cap from the squib.

SUBTASK 26-21-02-700-001

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (2) Do this to make sure that there is no stray voltage at the electrical squib connector:

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Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

- (a) Connect the digital/analog multimeter, COM-1793, across the two pins.
- (b) Make sure that the current is less than 5 mA.
- (c) Connect a resistor, STD-1079, across the multimeter probes.
- (d) Make sure that the voltage is less than .250 V.
- (e) If necessary, repeat the steps above for the other squib electrical connectors.
- (f) Disconnect the multimeter.

SUBTASK 26-21-02-420-002

- (3) Connect the electrical connector [1] to the squib.

NOTE: The squib pins can cause damage to the electrical connector if the pins do not correctly engage the electrical connector.

I. Engine Fire Extinguisher Squib Installation Test

SUBTASK 26-21-02-860-005

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-21-02-740-001

- (2) Set the EXT TEST switch on the P8-1 panel to 1.

- (a) Make sure the L and R lights come on.

NOTE: The APU light will also come on.

SUBTASK 26-21-02-740-002

- (3) Set the EXT TEST switch on the P8-1 panel to 2.

- (a) Make sure the L and R lights come on.

NOTE: The APU light will also come on.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 26-21-02-860-004

- (1) Do this task: Remove External Power, TASK 24-22-00-860-814.

———— END OF TASK ————

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APU FIRE EXTINGUISHING - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) APU fire extinguishing system - deactivation.
 - (2) APU fire extinguishing system - activation.

TASK 26-22-00-040-801

2. APU Fire Extinguishing System - Deactivation

A. General

- (1) This task will deactivate the APU fire extinguishing system.

B. Tools/Equipment

Reference	Description
STD-858	Tag - DO NOT OPERATE

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left
315	APU Compartment - Left
316	APU Compartment - Right
411	Engine 1 - Engine
421	Engine 2 - Engine

D. Procedure

SUBTASK 26-22-00-020-004

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-22-00-420-003

- (2) Put a DO NOT OPERATE tag, STD-858 on the APU fire handle on the P8-1 panel.

E. APU Fire Extinguishing System - Tryout

NOTE: This tryout is to make sure that the power to the APU fire extinguishing system is in a zero energy state.

SUBTASK 26-22-00-020-005

- (1) Remove the DO NOT OPERATE tag, STD-858 from the APU fire handle on the P8-1 panel.



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SUBTASK 26-22-00-210-002

- (2) Push the manual override button and pull the APU fire extinguishing handle on the P8-1 panel.

SUBTASK 26-22-00-210-003

- (3) Turn the APU handle in either direction.

- (a) Make sure that the APU BOTTLE DISCHARGED light on the P8-1 panel stays off.

SUBTASK 26-22-00-210-004

- (4) Turn and set the APU handle back to its initial position.

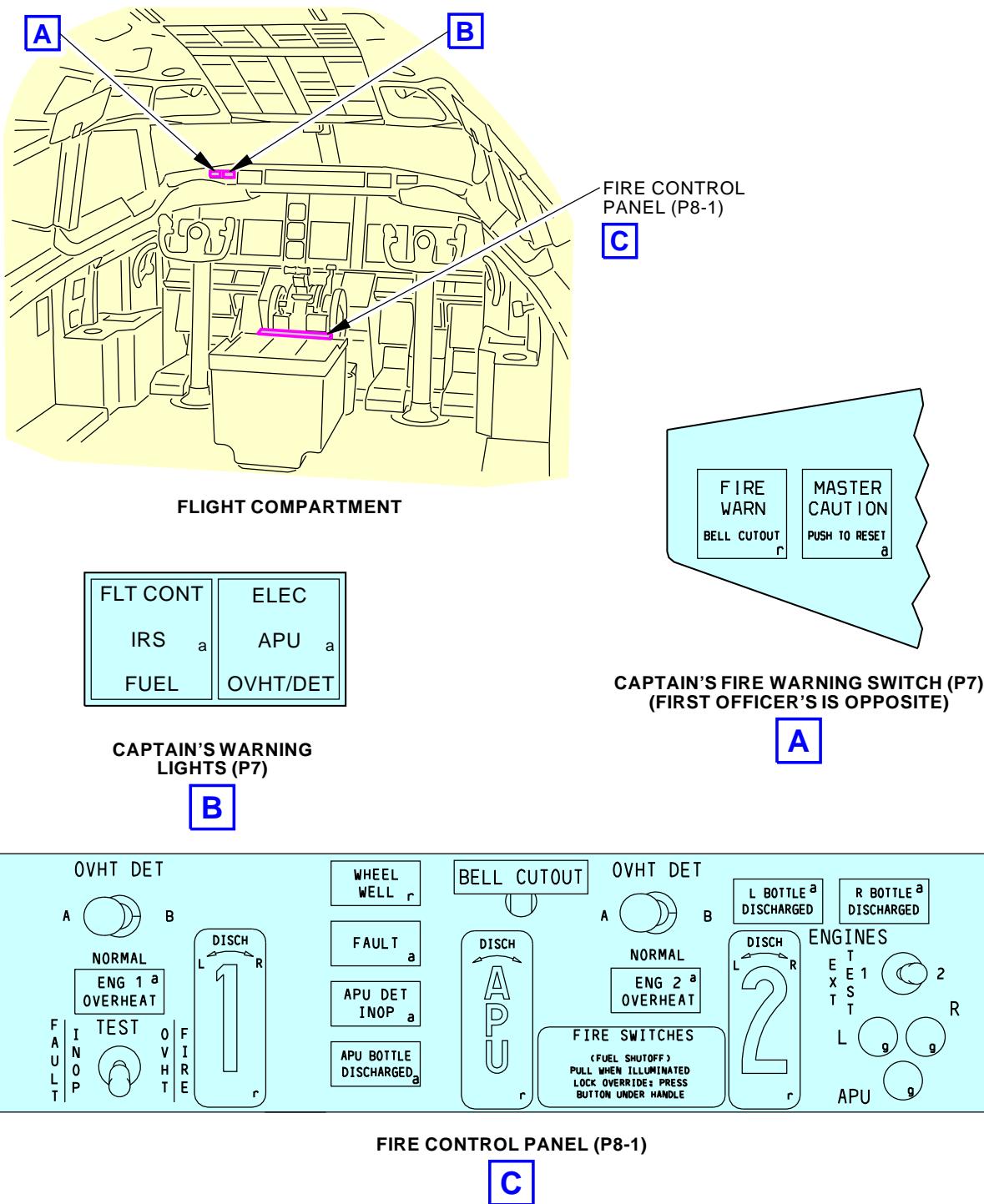
SUBTASK 26-22-00-210-006

- (5) Put a DO NOT OPERATE tag, STD-858 on the APU fire handle on the P8-1 panel.

———— END OF TASK ————

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APU Fire Extinguishing System
Figure 201/26-22-00-990-803

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TASK 26-22-00-440-801

3. APU Fire Extinguishing System - Activation

(Figure 201)

A. General

- (1) This task will activate the APU fire extinguishing system.

B. Tools/Equipment

Reference	Description
STD-858	Tag - DO NOT OPERATE

C. Location Zones

Zone	Area
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left
315	APU Compartment - Left
316	APU Compartment - Right
411	Engine 1 - Engine
421	Engine 2 - Engine

D. Procedure

SUBTASK 26-22-00-420-004

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	20	C00297	FIRE PROTECTION EXTINGUISHERS RIGHT
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU
B	22	C00296	FIRE PROTECTION EXTINGUISHERS LEFT
B	23	C01022	FIRE PROTECTION EXTINGUISHERS ALTN R
B	24	C01021	FIRE PROTECTION EXTINGUISHERS ALTN L

SUBTASK 26-22-00-020-007

- (2) Remove the DO NOT OPERATE tag, STD-858, from the APU fire handle on the P8-1 panel.

SUBTASK 26-22-00-710-007

- (3) Put and hold the EXT TEST switch on the P8-1 panel to 1.

- (a) Make sure the APU light comes on.

NOTE: The L and R lights will also come on.

SUBTASK 26-22-00-710-008

- (4) Put and hold the EXT TEST switch on the P8-1 panel to 2.

- (a) Make sure the APU light comes on.

NOTE: The L and R lights will also come on.

SUBTASK 26-22-00-710-009

- (5) Release the EXT TEST switch.

———— END OF TASK ———

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APU FIRE EXTINGUISHING - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A test of the APU fire bottle squib circuit.
 - (2) A test of the APU fire bottle pressure switch circuit.
 - (3) An APU fire handle system shutdown test.

TASK 26-22-00-730-801

2. APU Fire Extinguishing Bottle Squib Circuit Test

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
49-11-00-860-802	APU Usual Shutdown (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536
SPL-1655	Equipment - Test, APU/Engine Fire Detection System Part #: C26005-1 Supplier: 81205
SPL-1663	Test Equipment - Fire Extinguishing System Part #: F80229-69 Supplier: 81205 Opt Part #: F80229-15 Supplier: 81205



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(Continued)

<u>Reference</u>	<u>Description</u>	
SPL-10039	Cable Assy - Fire Extinguishing System Test Equipment - 737-300/400/500/600/700/800/900	Part #: F80229-20 Supplier: 81205 Part #: F80229-48 Supplier: 81205 Part #: F80229-59 Supplier: 81205 Part #: F80229-61 Supplier: 81205
SPL-10040	Shorting Plug - Fire Extinguishing System Test Equipment - 737-300/400/500/600/700/800/900	Part #: F80229-52 Supplier: 81205
STD-1079	Resistor - 10K Ohm or Greater	

C. Consumable Materials

<u>Reference</u>	<u>Description</u>	<u>Specification</u>
G50414	Lockwire - MS20995CY15, Copper - 0.015 Inch (0.381 mm) Diameter	NASM20995

D. Location Zones

<u>Zone</u>	<u>Area</u>
211	Flight Compartment - Left
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left

E. Access Panels

<u>Number</u>	<u>Name/Location</u>
311BL	Stabilizer Trim Access Door
315A	APU Cowl Door

F. Prepare for the Test

SUBTASK 26-22-00-860-001

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

SUBTASK 26-22-00-860-027

- (2) Open this access panel:

Number Name/Location

311BL Stabilizer Trim Access Door

SUBTASK 26-22-00-020-001

WARNING: DO NOT TOUCH THE SQUIB BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (3) Before you touch the squib, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:

- ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
- ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

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- (4) Disconnect electrical connector D594 from the squib.

SUBTASK 26-22-00-020-002

WARNING: PUT A PROTECTIVE CAP ON THE SQUIB. IF YOU DO NOT PUT A PROTECTIVE CAP ON THE SQUIB, THE FIRE EXTINGUISHING BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

- (5) Install a fire extinguishing test set shorting plug, SPL-10040, to the squib.

SUBTASK 26-22-00-860-002

- (6) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

SUBTASK 26-22-00-480-001

- (7) Set the toggle switch on Fire System Test Equipment, SPL-1663, to ON.

SUBTASK 26-22-00-760-001

- (8) Measure the resistance (RL) of the test box with a digital/analog multimeter, COM-1793, connected to the voltmeter jacks.

- (a) Write down the value of RL.

SUBTASK 26-22-00-480-002

- (9) Set the toggle switch on the test box to OFF.

SUBTASK 26-22-00-480-003

- (10) Set the multimeter to read DC volts.

SUBTASK 26-22-00-480-004

- (11) Connect the applicable fire extinguishing test set cable assembly, SPL-10039, to the connector on the test box.

NOTE: Look at the placard on the test box lid to determine the applicable adapter.

G. APU Fire Extinguishing Bottle Squib Circuit Test

SUBTASK 26-22-00-730-001

- (1) Push the manual override button and pull the APU fire handle on the P8-1 panel.

SUBTASK 26-22-00-480-005

- (2) Connect the adapter cable to the squib electrical connector.

SUBTASK 26-22-00-860-020

- (3) Turn the APU fire handle in the CW (Clockwise) direction.

- Make sure the BOTTLE DISCHARGE light on the test box comes on.
- Write down the voltage shown on the multimeter as (V_1).
- Set the switch on the test box to ON.
- Write down the voltage shown on the multimeter as (V_2).

SUBTASK 26-22-00-860-021

- (4) Release the fire handle.

- Make sure the handle moves toward the center 10°arc (0.2 rad).
- Make sure the multimeter shows 0 (± 2) V (volts).



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SUBTASK 26-22-00-760-002

- (5) Calculate the resistance R_C of the squib discharge circuit using this formula:

$$R_C = RL(V_1/V_2) - RL.$$

- (a) Make sure R_C is less than or equal to 5 ohms.

NOTE: If R_C is more than 5 ohms, the circuit can not supply enough current to fire the squib cartridge.

SUBTASK 26-22-00-860-022

- (6) Turn the APU fire handle in the CCW (Counterclockwise) direction.

- (a) Make sure the BOTTLE DISCHARGE light on the test box comes on.
(b) Write down the voltage shown on the multimeter as (V_1).
(c) Set the switch on the test box to ON.
(d) Write down the voltage shown on the multimeter as (V_2).

SUBTASK 26-22-00-860-023

- (7) Release the fire handle.

- (a) Make sure the handle moves toward the center 10°arc (0.2 rad).
(b) Make sure the multimeter shows 0 (± 2) V.

SUBTASK 26-22-00-760-003

- (8) Calculate the resistance R_C of the squib discharge circuit using this formula:

$$R_C = RL(V_1/V_2) - RL.$$

- (a) Make sure R_C is less than or equal to 5 ohms.

NOTE: If R_C is more than 5 ohms, the circuit can not supply enough current to fire the squib cartridge.

- (9) Return the APU fire handle to its usual (stowed) position.

H. Do a check of the APU fire bottle squib circuit using the remote APU control panel

SUBTASK 26-22-00-730-002

- (1) Pull the handle on the P28 remote APU control panel, in the right main gear wheel well.

SUBTASK 26-22-00-860-024

- (2) Push and hold the BOTTLE DISCHARGE toggle switch.

- (a) Make sure the BOTTLE DISCHARGE light on the test box comes on.
(b) Write down the voltage shown on the multimeter as (V_1).
(c) Set the switch on the test box to ON.
(d) Write down the voltage shown on the multimeter as (V_2).

SUBTASK 26-22-00-860-025

- (3) Release the BOTTLE DISCHARGE toggle switch.

- (a) Make sure the multimeter shows 0 (± 2) V.

SUBTASK 26-22-00-760-004

- (4) Calculate the resistance R_C of the squib discharge circuit using this formula:

$$R_C = RL(V_1/V_2) - RL.$$

- (a) Make sure R_C is less than or equal to 5 ohms.

NOTE: If R_C is more than 5 ohms, the circuit can not supply enough current to fire the squib cartridge.

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SUBTASK 26-22-00-720-001

- (5) Put the handle on the P28 remote APU control panel in the usual position.

I. Do a check of the automatic extinguishing function for the APU fire bottle

SUBTASK 26-22-00-860-026

- (1) Make sure the APU is not running APU Usual Shutdown, TASK 49-11-00-860-802.

SUBTASK 26-22-00-010-001

- (2) To get access to the APU Compartment, do this step:

Open these access panels:

Number Name/Location

311BL	Stabilizer Trim Access Door
315A	APU Cowl Door

SUBTASK 26-22-00-480-006

- (3) Connect the test box equipment, SPL-1655, to the terminal lug of the APU LOWER Fire Detector, M1756, and airplane ground.

- Make sure all the toggle switches on the test box are in the NORMAL positions.
- Connect one alligator clip to the responder bracket or to a grounding lug.
- Connect the other alligator clip to the responder lug.

SUBTASK 26-22-00-760-005

- (4) Make sure the multimeter shows 0 (± 2) V.

SUBTASK 26-22-00-760-006

- (5) On the equipment, SPL-1655 test box, move the APU LOOP FIRE switches to the FIRE position.

- After 10 seconds, make sure the BOTTLE DISCHARGE light on the Fire System Test Equipment, SPL-1663 test box, comes on.
- Write down the voltage shown on the multimeter as (V_1).
- Set the switch on the Fire System Test Equipment, SPL-1663 test box, to ON.
- Write down the voltage shown on the multimeter as (V_2).

SUBTASK 26-22-00-760-007

- (6) Calculate the resistance R_C of the squib discharge circuit using this formula:

$$R_C = RL \left(\frac{V_1}{V_2} - 1 \right)$$

- Make sure R_C is less than or equal to 5 ohms.

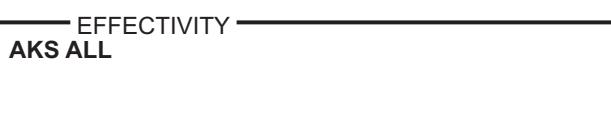
NOTE: If R_C is more than 5 ohms, the circuit can not supply enough current to fire the squib cartridge.

SUBTASK 26-22-00-760-008

- (7) On the equipment, SPL-1655 test box, move the APU LOOP FIRE switches to the NORMAL position.

SUBTASK 26-22-00-080-002

- (8) Disconnect the equipment, SPL-1655 test box, from the terminal lug of the APU Fire Detector, M1756, and the airplane ground.



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SUBTASK 26-22-00-410-001

- (9) Close this access panel:

Number Name/Location

311BL Stabilizer Trim Access Door

J. Return the Airplane to its Usual Condition.

SUBTASK 26-22-00-080-003

- (1) Disconnect the Fire System Test Equipment, SPL-1663 test box, from the squib connector.

SUBTASK 26-22-00-430-001

- (2) Install MS20995CY15 lockwire, G50414, on the bottle discharge switch on the APU remote fire panel.

SUBTASK 26-22-00-865-001

- (3) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

SUBTASK 26-22-00-090-001

- (4) Remove the protective cap from the squibs.

SUBTASK 26-22-00-700-001

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (5) Do this to make sure that there is no stray voltage at the electrical squib connector:

Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

- Connect the digital/analog multimeter, COM-1793, across the two pins.
- Make sure that the current is less than 5 mA.
- Connect a resistor, STD-1079, across the multimeter probes.
- Make sure that the voltage is less than .250 V.
- If necessary, repeat the steps above for the other squib electrical connectors.
- Disconnect the multimeter.

SUBTASK 26-22-00-430-002

- (6) Connect the D594 to the squib.

SUBTASK 26-22-00-410-004

- (7) Close these access panels:

Number Name/Location

311BL Stabilizer Trim Access Door
315A APU Cowl Door

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SUBTASK 26-22-00-865-002

- (8) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

SUBTASK 26-22-00-710-004

- (9) Set the EXT TEST switch to 1.

- (a) Make sure the APU light comes on.

NOTE: The L and R lights should also come on.

SUBTASK 26-22-00-710-005

- (10) Set the EXT TEST switch to 2.

- (a) Make sure the APU light comes on.

NOTE: The L and R lights should also come on.

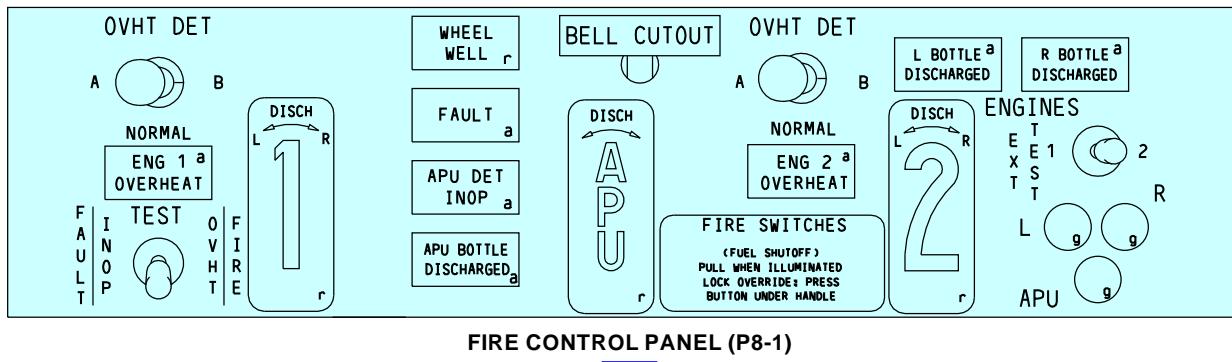
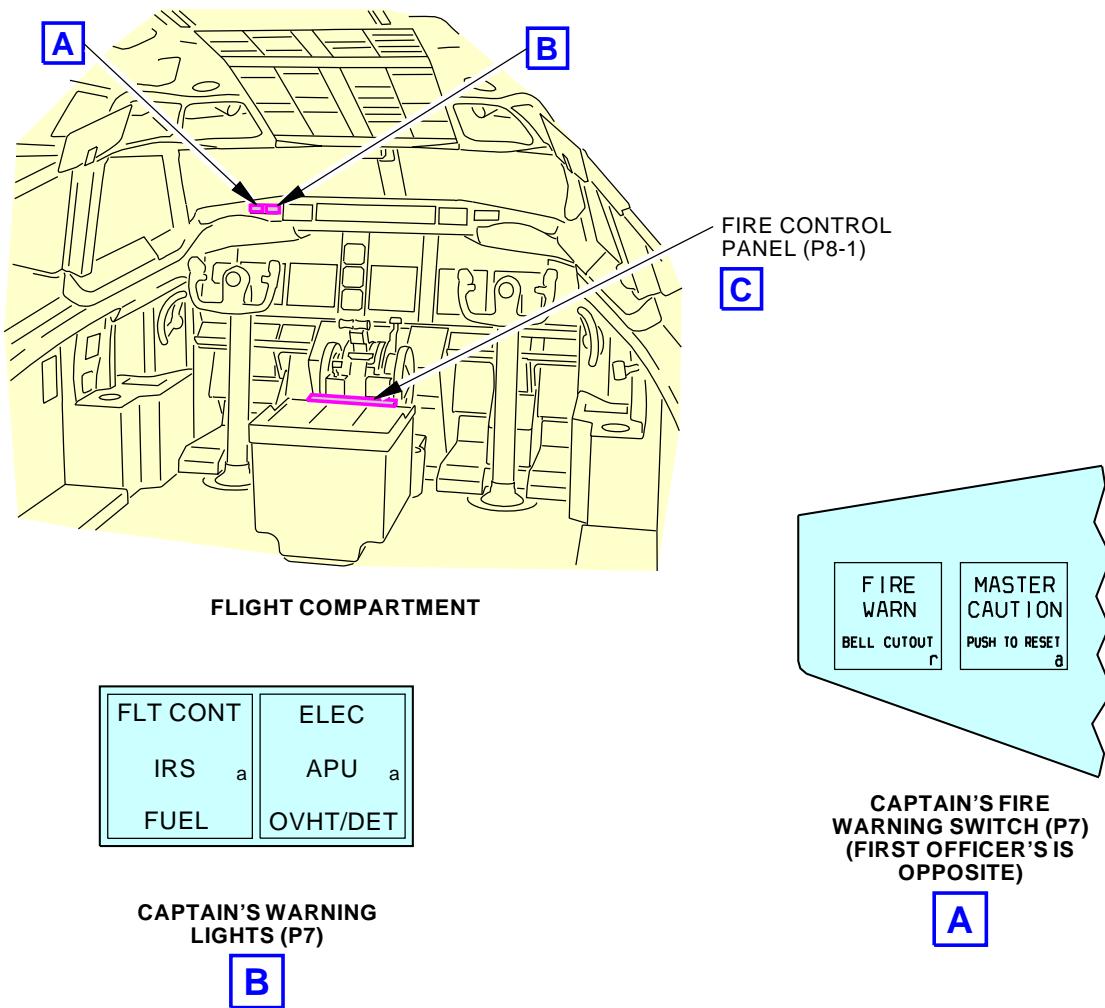
SUBTASK 26-22-00-710-006

- (11) Release the EXT TEST switch.

———— END OF TASK ————



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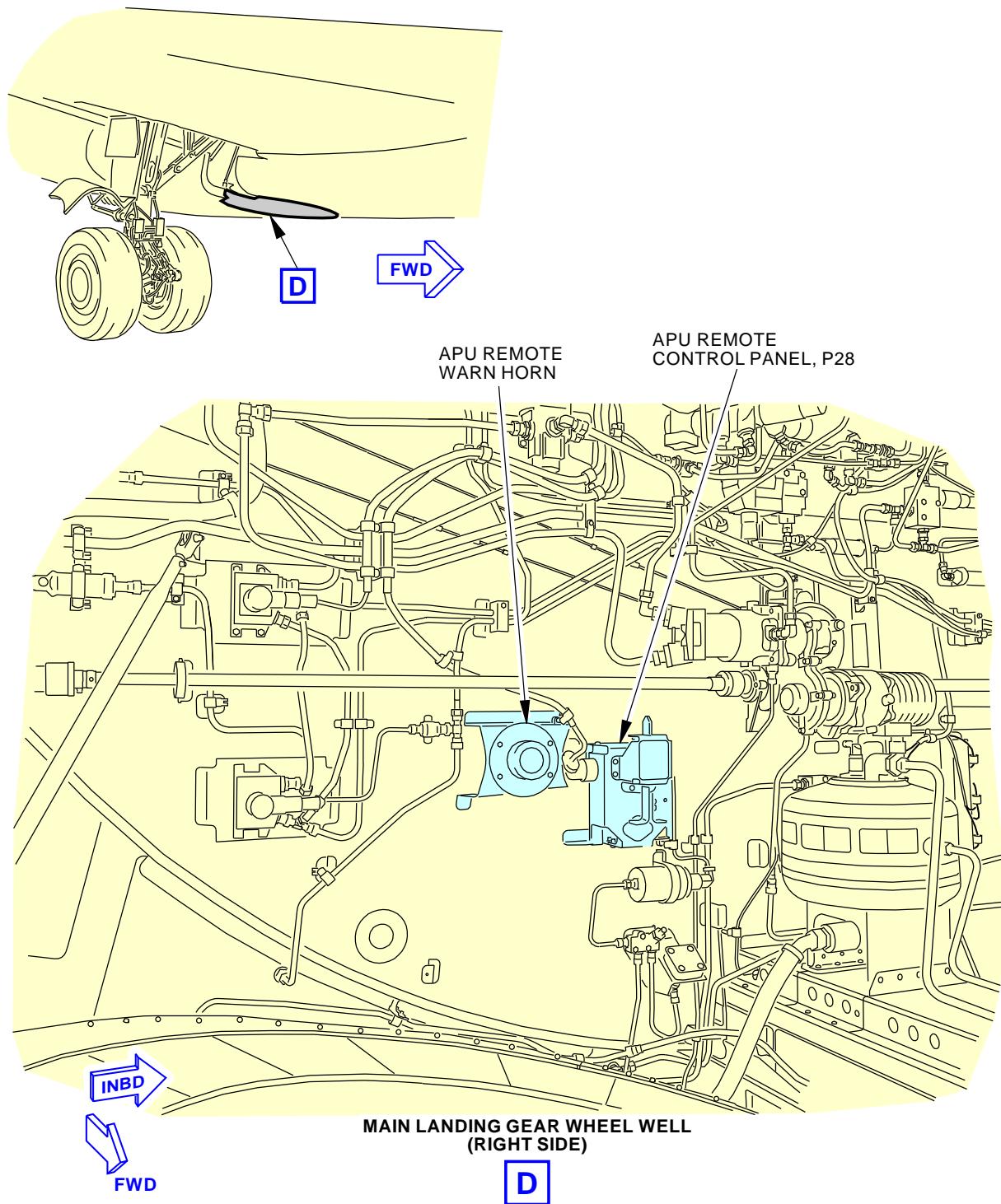
APU Fire Detection Test
Figure 501/26-22-00-990-801 (Sheet 1 of 2)

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APU Fire Detection Test
Figure 501/26-22-00-990-801 (Sheet 2 of 2)

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TASK 26-22-00-730-802

3. APU Fire Extinguishing Bottle Pressure Switch Circuit Test

(Figure 501)

A. General

- (1) The pressure switch test should be performed every time the fire control module, or pressure switch is disconnected from the airplane wiring.

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left

C. APU Fire Extinguishing Bottle Pressure Switch Test

SUBTASK 26-22-00-020-003

- (1) Disconnect electrical connector D1176 from the pressure switch on the APU fire bottle.

SUBTASK 26-22-00-730-003

- (2) Do a test of the APU fire bottle pressure switch circuit.
 - (a) Connect a jumper wire between pins 1 and 2 on D1176.
 - 1) Make sure the APU BOTTLE DISCHARGED light on the fire control module comes on.
 - (b) Remove the jumper from connector D1176.

SUBTASK 26-22-00-420-002

- (3) Connect D1176 to the pressure switch on the APU fire bottle.

————— END OF TASK ————

TASK 26-22-00-720-801

4. APU Fire Switch System Shutdown Test

(Figure 502)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This procedure checks that fuel to the APU is shut off and the APU generator is disconnected from the airplane power when the fire handle is pulled. It should be performed when the Engine and APU Fire Control Panel, or Remote APU Control Panel is removed from the airplane.

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
24-22-00-860-815	Supply APU Generator Power (P/B 201)

C. Location Zones

Zone	Area
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right
315	APU Compartment - Left

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(Continued)

Zone Area

316 APU Compartment - Right

D. APU Fire Handle Fuel System Shutdown Test

SUBTASK 26-22-00-860-005

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

SUBTASK 26-22-00-860-006

- (2) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
A	22	C00407	FIRE PROTECTION DETECTION ENG 2
A	23	C00403	FIRE PROTECTION DETECTION APU
A	24	C00405	FIRE PROTECTION DETECTION ENG 1

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
D	15	C01401	LANDING GEAR AIR/GND RELAY
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6

SUBTASK 26-22-00-860-013

- (3) Pull the APU fire handle on the P8 panel.
(a) Make sure the fire handle does not extend.

SUBTASK 26-22-00-860-008

- (4) Do a test of the APU fire handle fuel shutdown circuit in the flight compartment.
(a) Set the APU master switch on the P5 panel to ON.
NOTE: The igniter plugs will fire three times. Do not start the APU.
1) Make sure the APU fuel supply valve in the left main gear wheel well opens (Figure 502).
(b) Push the manual override button and pull the APU fire handle on the P8 panel.
1) Make sure the APU fuel supply valve in the left main gear wheel well closes.

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- (c) Push in the APU fire handle on the P8 panel to the usual position.
- (d) Set the APU master switch on the P5 panel to OFF.

SUBTASK 26-22-00-860-009

- (5) Do a check of the APU fire handle fuel shutoff circuit using the remote APU control panel.
 - (a) Set the APU master switch on the P5 panel to ON.
 - 1) Make sure the APU fuel supply valve in the left main gear wheel well opens.
 - (b) Pull the handle on the P28 remote APU control panel, in the right main gear wheel well.
 - 1) Make sure the APU fuel supply valve in the left main gear wheel well closes.
 - (c) Push the handle on the remote APU control panel to the usual position.
 - (d) Set the APU master switch on the P5 panel to OFF.

E. APU Fire Handle Generator Shutdown Test

SUBTASK 26-22-00-860-014

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

SUBTASK 26-22-00-860-015

- (2) Do this task: Supply APU Generator Power, TASK 24-22-00-860-815.

SUBTASK 26-22-00-860-016

- (3) Set the AC meter select switch on the P5-13 panel to APU GEN.
 - (a) Make sure the voltage reads 110-120 vac.
 - (b) Make sure the frequency reads 390-410.

SUBTASK 26-22-00-860-017

CAUTION: DO NOT TURN THE FIRE HANDLE WHEN IT IS EXTENDED. IF YOU DO THE FIRE BOTTLE WILL DISCHARGE.

- (4) Push the manual override button and pull the APU fire handle on the P8 panel.

NOTE: The APU will do an emergency shutdown. When the APU does an emergency shutdown, it will not do the cool-down cycle.

- (a) Make sure the voltage and frequency read 0 after 7 seconds.

SUBTASK 26-22-00-860-018

- (5) Set the APU and fire protection circuits to the usual positions.
 - (a) Set the APU master switch to the OFF position.
 - (b) Push the APU fire handle to its usual position.
 - (c) Set the APU master switch to the ON position.
 - (d) After 30 seconds, make sure the APU FAULT light goes off.
 - (e) Make sure the APU annunciator light goes off.
 - (f) Push and release the APU annunciator light.
 - (g) Make sure the L and R MASTER CAUTION lights go off.

NOTE: The L and R MASTER CAUTION lights stay on if the airplane finds other system faults.

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- (h) Set the APU master switch to the OFF position.

F. Return the Airplane to its Usual Condition

SUBTASK 26-22-00-860-012

- (1) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

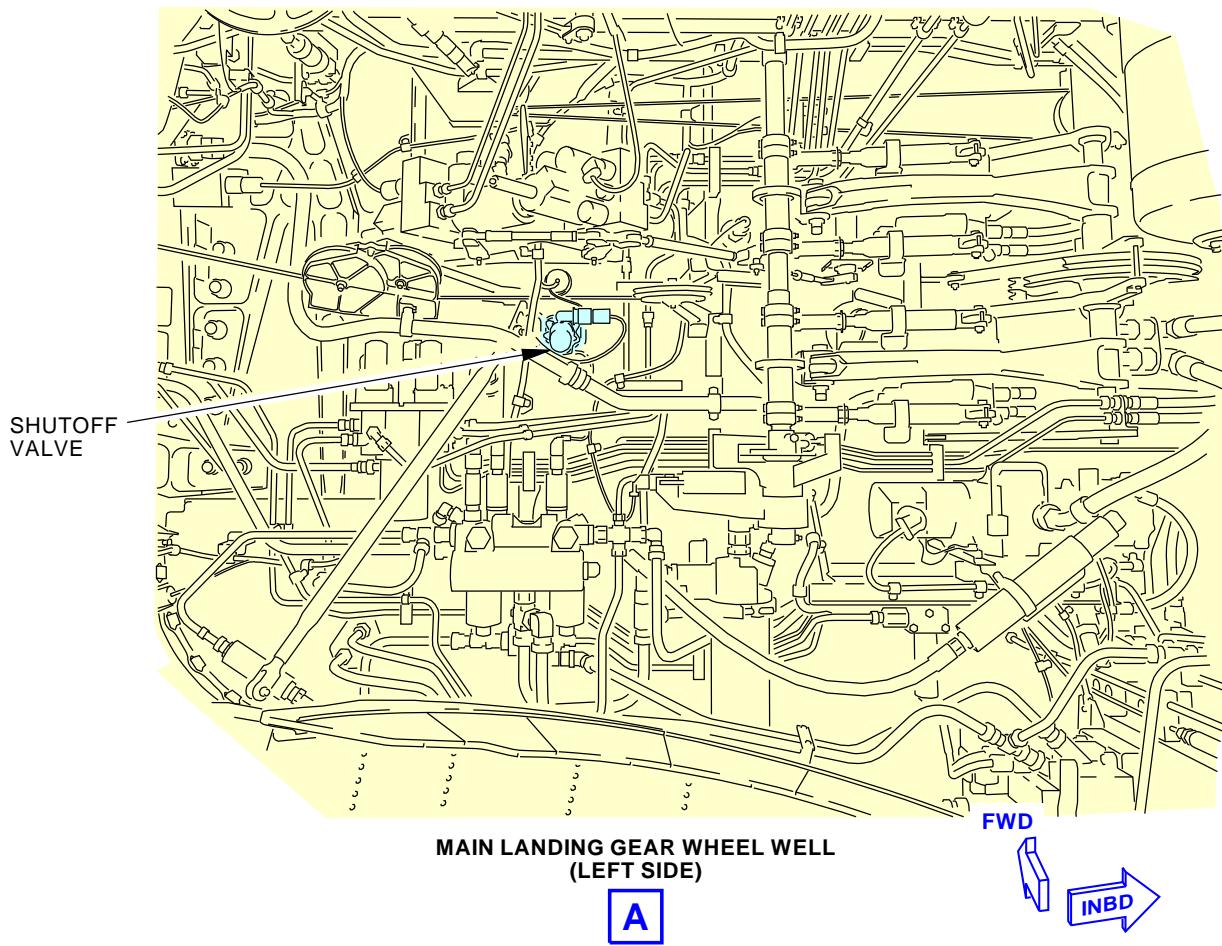
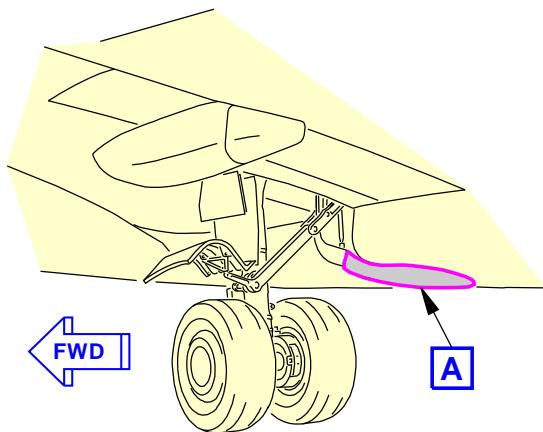
———— END OF TASK ————

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G20382 S0006568276_V2

APU Fuel Shutoff Valve Actuator Test
Figure 502/26-22-00-990-802

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D633A101-AKS

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APU FIRE EXTINGUISHING BOTTLE - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Removal of the APU fire extinguishing bottle.
 - (2) Installation of the APU fire extinguishing bottle.
- C. The APU fire extinguishing bottle is installed forward of the APU fire wall. You can get access to the bottle through the Aft Unpressurized Compartment Access Door, 311BL.

TASK 26-22-01-000-801

2. APU Fire Extinguishing Bottle Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to remove the APU Fire Extinguishing Bottle.

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Fire extinguishing bottle	26-22-01-01-025	AKS ALL
7	Squib	26-22-01-01-080	AKS ALL
		26-22-01-01-085	AKS ALL

C. Location Zones

Zone	Area
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left

D. Access Panels

Number	Name/Location
311BL	Stabilizer Trim Access Door

E. Prepare for the Removal

SUBTASK 26-22-01-860-004

- (1) Make sure that the APU master switch on the P5 overhead panel is in the OFF position and install a DO-NOT-OPERATE tag.

SUBTASK 26-22-01-860-001

- (2) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	19	C01344	APU FIRE SW POWER
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
A	14	C00033	AUX POWER UNIT CONT

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SUBTASK 26-22-01-010-007

- (3) Open this access door:

Number Name/Location

311BL Stabilizer Trim Access Door

F. APU Fire Extinguishing Bottle Removal

SUBTASK 26-22-01-020-001

- (1) Do these steps to remove the bottle:

(a) Disconnect the electrical connector [1] from the squib [7].

WARNING: PUT A PROTECTIVE CAP ON THE SQUIB. IF YOU DO NOT PUT A PROTECTIVE CAP ON THE SQUIB, THE FIRE EXTINGUISHING BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

(b) Put a protective cap [6] on the squib [7].

(c) Disconnect the electrical connector [2] from the pressure switch.

(d) Loosen the nut on the hose or tube assembly.

(e) Disconnect the hose or tube assembly from the discharge head.

(f) Install the protective caps on each of the discharge ports.

(g) Install the protective caps on each of the discharge tubes.

(h) Remove the bolts [4] and washers [5] from the mounting lugs.

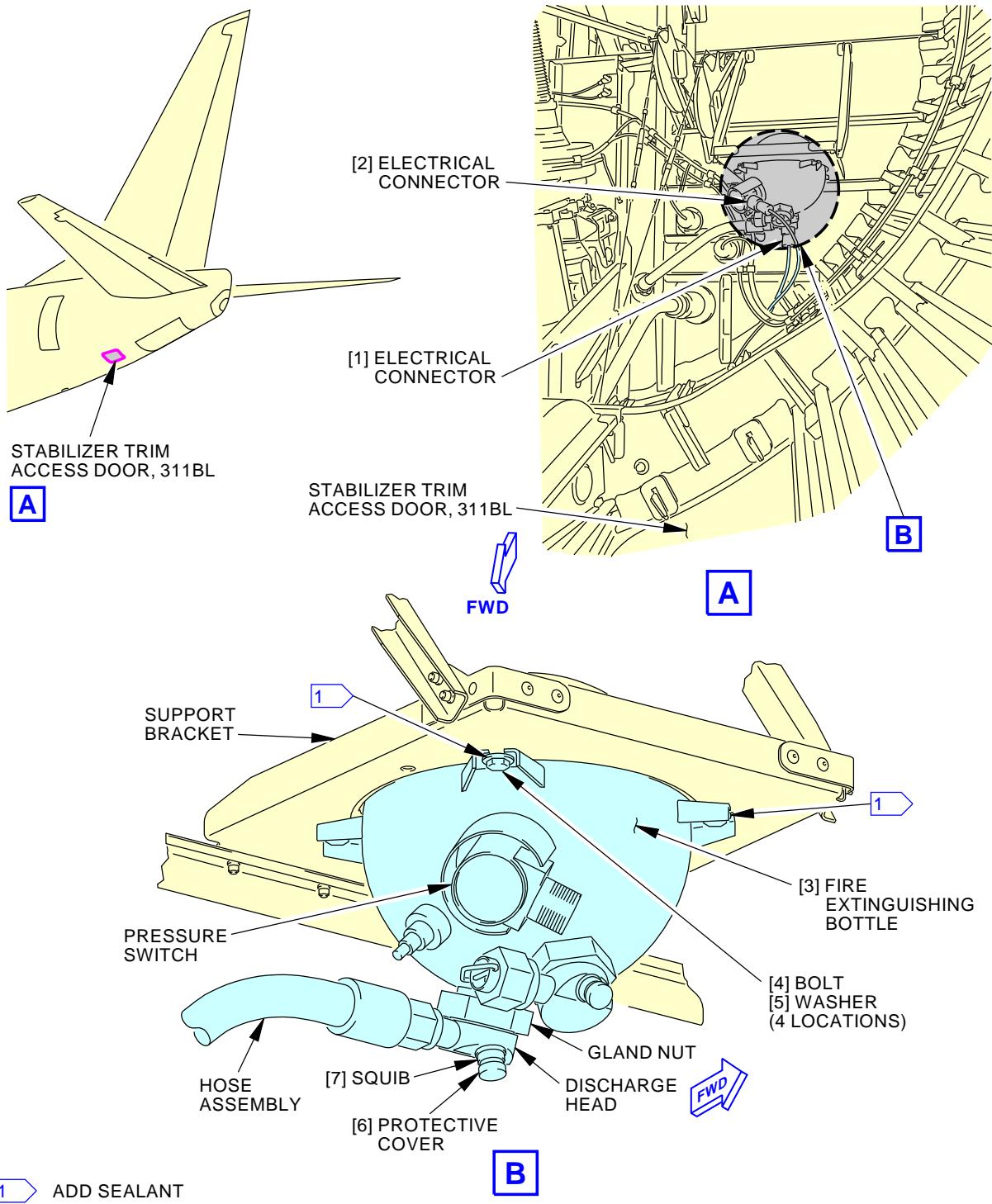
WARNING: BE CAREFUL WHEN YOU MOVE THE FIRE EXTINGUISHING BOTTLE. THE FIRE EXTINGUISHING BOTTLE IS HIGHLY PRESSURIZED AND HAS AN EXPLOSIVE CARTRIDGE AS A COMPONENT. ACCIDENTAL DISCHARGE OF THE FIRE EXTINGUISHING BOTTLE CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (i) Remove the fire extinguishing bottle [3].

———— END OF TASK ————

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AKS ALL

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F39673 S0006568280_V3

Auxiliary Power Unit (APU) Fire Extinguishing Bottle Installation
Figure 401/26-22-01-990-801

EFFECTIVITY	AKS ALL
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TASK 26-22-01-400-801

3. APU Fire Extinguishing Bottle Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
26-20-00-210-801	APU Fire Extinguishing Bottle Check (P/B 601)
26-22-00-730-802	APU Fire Extinguishing Bottle Pressure Switch Circuit Test (P/B 501)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536
COM-4907	Force Gauge With Resolution of 0.10 lb, +/-0.3% or better Part #: FDIX 100 Supplier: 0BFD9 Part #: FDIX 50 Supplier: 0BFD9 Part #: LG-5KG Supplier: 92456 Part #: PS-10 Supplier: 1GHM7 Opt Part #: FDI 100 Supplier: 0BFD9 Opt Part #: FDI 50 Supplier: 0BFD9 Opt Part #: FDV 100 Supplier: 0BFD9 Opt Part #: FDV 50 Supplier: 0BFD9
STD-1079	Resistor - 10K Ohm or Greater

C. Consumable Materials

Reference	Description	Specification
A50110	Sealant	BMS5-45 Class B-2
A50155	Sealant - Fuel Tank	BMS5-45 Class C
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B

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Reference	Description	Specification
A50296	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class C
B50073	Alcohol - Isopropyl	ASTM D 770
D50004	Compound - Antiseize	BMS3-28
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G01048	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G50136	Compound - Corrosion Inhibiting, Non-drying	BMS3-38
G50237	Compound - Corrosion Inhibiting, Non-drying - Cor-Ban 27L	BMS3-38, NSN 6850-01-469-7645
G50260	Sandpaper - Aluminum Oxide, 220 Grit	

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Fire extinguishing bottle	26-22-01-01-025	AKS ALL
6	Protective cap	26-22-01-01-090	AKS ALL
		26-22-01-01-095	AKS ALL
7	Squib	26-22-01-01-080	AKS ALL
		26-22-01-01-085	AKS ALL

E. Location Zones

Zone	Area
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left

F. Access Panels

Number	Name/Location
311BL	Stabilizer Trim Access Door

G. Prepare for the Installation

SUBTASK 26-22-01-700-001

- (1) Using force gauge, COM-4907, weigh the bottle.

- (a) Make sure the weight is not more than 0.1 pound than the weight listed on the bottle data plate.

NOTE: The bottle assembly includes the charged bottle, discharge heads, cartridge and electrical bonding tab with stud wire locked in place. Remove all protective caps before weighing. The explosive cartridge must be capped when handling the bottle assembly, except at weighing.

SUBTASK 26-22-01-860-002

- (2) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	19	C01344	APU FIRE SW POWER
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU



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F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-22-01-200-001

- (3) Do this task: APU Fire Extinguishing Bottle Check, TASK 26-20-00-210-801.

- (a) If the previous bottle was discharged, check the discharge tube for any debris.

H. APU Fire Extinguishing Bottle Installation

SUBTASK 26-22-01-420-001

WARNING: REMOVE THE METAL CAPS FROM THE FILL FITTING ASSEMBLY ON THE APU FIRE EXTINGUISHER BOTTLES. THE SAFETY RELEASE ON THE BOTTLE WILL NOT OPERATE IF METAL CAPS ARE INSTALLED.

- (1) Do these steps to install the fire extinguishing bottle [3]:

WARNING: BE CAREFUL WHEN YOU MOVE THE FIRE EXTINGUISHING BOTTLE. THE FIRE EXTINGUISHING BOTTLE IS HIGHLY PRESSURIZED AND HAS AN EXPLOSIVE CARTRIDGE AS A COMPONENT. ACCIDENTAL DISCHARGE OF THE FIRE EXTINGUISHING BOTTLE CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (a) Prepare the fire extinguisher bottle lugs and the support bracket mounting surfaces for installation.

- 1) Remove any old sealant from the bottle lugs and the support bracket.

- (b) Use sandpaper, G50260, to sand the surface of the support bracket mounting surface until any surface finish is removed.

NOTE: Avoid removing surface finish outside of the bonding area.

- (c) Using a cotton wiper, G00034, and alcohol, B50073, clean the exposed surfaces of the support mounting bracket and the surfaces of the bottle mounting lugs.

- (d) Immediately dry the surfaces with a new wiper.

- (e) Apply any one of the following sealants to the surface of the bottle mounting lugs:

- sealant, A50110
- sealant, A50155
- sealant, A50231
- sealant, A50296

- (f) Make sure you apply the sealing compound on the full area of the bottle lug surface.

NOTE: The thickness of the sealing compound must be 0.005 in. (0.127 mm). If necessary, the sealing compound thickness can be between 0.010 in. (0.254 mm) and 0.030 in. (0.762 mm) depending on fit-up of parts.

- (g) Put the bottle in the mounted position on the support bracket.

- (h) Install the bolts [4] and washers [5].

- 1) Make sure there is sufficient sealant coming out at each edge of the bottle lugs.

- 2) Make sure the sealant squeeze out is smooth and approximately 0.06 in. (1.52 mm) along the joint.

- (i) Do a check of the resistance between the bottle lugs and the support bracket.

- 1) Make sure the resistance is 0.7 milliohm or less.

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- a) If the resistance is more than 0.7 milliohm, remove the bottle and repeat the previous steps to prepare the bottle surfaces for installation.
- (j) If the discharge head does not align with the hose or tube assembly, do these steps:
 - 1) Loosen the discharge outlet gland nut and rotate the discharge port so it aligns with the tube assembly.
 - 2) Torque the gland nut to 540 in-lb (61 N·m) – 660 in-lb (75 N·m).
 - 3) Remove the protective caps from each of the discharge ports.
 - 4) Remove the protective caps from each of the discharge tubes.
 - 5) Install MS20995C32 lockwire, G01048 on the gland nut.

WARNING: DO NOT GET THE CORROSION-INHIBITING COMPOUND ON YOUR SKIN, IN YOUR EYES, OR ON YOUR CLOTHES. THE COMPOUND IS POISONOUS AND FLAMMABLE. USE APPROVED GLOVES, AND EYE PROTECTION. MAKE SURE THAT THERE IS GOOD AIRFLOW IN THE WORK AREA. KEEP THE COMPOUND AWAY FROM SPARKS AND FLAMES. THE COMPOUND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (k) Apply a layer of compound, D50004, (preferred) to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.
 - 1) The Cor-Ban 27L Compound, G50237, or corrosion inhibiting compound, G50136, are also acceptable alternatives as anti-corrosion compounds to use in this location.
- (l) Connect the tube assembly to the discharge head.
- (m) Remove any unwanted compound.
- (n) Tighten the nut to 342 in-lb (38.6 N·m) – 378 in-lb (42.7 N·m).

SUBTASK 26-22-01-710-001

- (2) Do these steps to connect the electrical connector [1] to the squib [7] on the fire extinguishing bottle:

WARNING: DO NOT TOUCH THE SQUIB BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (a) Before you touch the squib, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:
 - ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
 - ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.
- (b) Remove the protective cap [6] from the squib [7].

SUBTASK 26-22-01-700-002

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (3) Do this to make sure that there is no stray voltage at the electrical squib connector:

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Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

- (a) Connect the digital/analog multimeter, COM-1793, across the two pins.
- (b) Make sure that the current is less than 5 mA.
- (c) Connect a resistor, STD-1079, across the multimeter probes.
- (d) Make sure that the voltage is less than .250 V.
- (e) If necessary, repeat the steps above for the other squib electrical connectors.
- (f) Disconnect the multimeter.

SUBTASK 26-22-01-420-003

- (4) Connect the electrical connector [1] to the squib [7].

NOTE: The squib pins can cause damage to the electrical connector if the pins do not correctly engage the electrical connector.

SUBTASK 26-22-01-420-002

- (5) Do this task to test the electrical wiring up to the pressure switch: APU Fire Extinguishing Bottle Pressure Switch Circuit Test, TASK 26-22-00-730-802.
- (6) Connect the electrical connector [2] to the pressure switch.

I. APU Fire Extinguishing Bottle Installation Test

SUBTASK 26-22-01-860-003

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	19	C01344	APU FIRE SW POWER
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 26-22-01-741-001

- (2) Set the EXT TEST switch on the P8-1 panel to 1.

- (a) Make sure the L and R lights come on.

NOTE: The APU light will also come on.

SUBTASK 26-22-01-741-002

- (3) Set the EXT TEST switch on the P8-1 panel to 2.

- (a) Make sure the L and R lights come on.

NOTE: The APU light will also come on.

SUBTASK 26-22-01-741-003

- (4) Release the EXT TEST switch.

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J. Put the Airplane Back to Its Usual Condition

SUBTASK 26-22-01-010-002

- (1) Close this access door:

Number Name/Location

311BL Stabilizer Trim Access Door

———— END OF TASK ————

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APU FIRE BOTTLE - INSPECTION/CHECK

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has this inspection task:
 - (1) APU Fire Bottle.

TASK 26-22-01-210-801

2. APU Fire Bottle Inspection

NOTE: This procedure is a scheduled maintenance task.

A. Location Zones

Zone	Area
313	Stabilizer Torsion Box Compartment - Left
314	Stabilizer Torsion Box Compartment - Right
315	APU Compartment - Left

B. Access Panels

Number	Name/Location
311BL	Stabilizer Trim Access Door
315A	APU Cowl Door

C. Prepare for inspection

SUBTASK 26-22-01-010-003

- (1) Open these access panels:

Number	Name/Location
311BL	Stabilizer Trim Access Door
315A	APU Cowl Door

D. Procedure

SUBTASK 26-22-01-210-001

- (1) Make sure the fire bottle is not damaged.

SUBTASK 26-22-01-210-003

- (2) Make sure the extinguisher tube is not damaged.

SUBTASK 26-22-01-210-004

- (3) Make sure the tubing outlet is free of obstructions.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 26-22-01-010-004

- (1) Close these access panels:

Number	Name/Location
311BL	Stabilizer Trim Access Door
315A	APU Cowl Door

— END OF TASK —



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APU FIRE EXTINGUISHING BOTTLE SQUIB - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A removal of the APU fire extinguishing bottle squib.
 - (2) An installation of the APU fire extinguishing bottle squib.

TASK 26-22-02-000-801

2. APU Fire Extinguishing Bottle Squib Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to remove the APU Fire Extinguishing Bottle Squib.
- (2) The APU fire extinguishing squibs are installed on the fire extinguishing bottle. The APU fire extinguishing bottle is installed forward of the APU fire wall.
 - (a) There are two fire extinguishing squibs on the bottle.
 - (b) One is not used and has a protective cap installed.

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Squib	26-22-01-01-080	AKS ALL
4	Squib	26-21-60-01-060	AKS ALL
		26-22-01-01-085	AKS ALL
5	O-ring	26-22-01-01-077	AKS ALL

C. Location Zones

Zone	Area
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left

D. Access Panels

Number	Name/Location
311BL	Stabilizer Trim Access Door

E. Prepare For the Removal

SUBTASK 26-22-02-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	19	C01344	APU FIRE SW POWER
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
A	14	C00033	AUX POWER UNIT CONT

EFFECTIVITY
AKS ALL

26-22-02



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SUBTASK 26-22-02-010-003

- (2) Open this access door:

Number Name/Location

311BL Stabilizer Trim Access Door

F. APU Fire Extinguishing Bottle Squib Removal

SUBTASK 26-22-02-020-001

- (1) Do these steps to remove the connected squib:

(a) Disconnect the electrical connector [1] from the squib [3].

WARNING: PUT A PROTECTIVE CAP ON THE SQUIB. IF YOU DO NOT PUT A PROTECTIVE CAP ON THE SQUIB, THE FIRE EXTINGUISHING BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

(b) Put a protective cover [2] on the squib [3].

(c) Remove the squib [3] from the discharge head.

1) If necessary, remove the squib [4] from the discharge head.

(d) Discard the old O-ring [5] from the removed squib/s.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-22-02

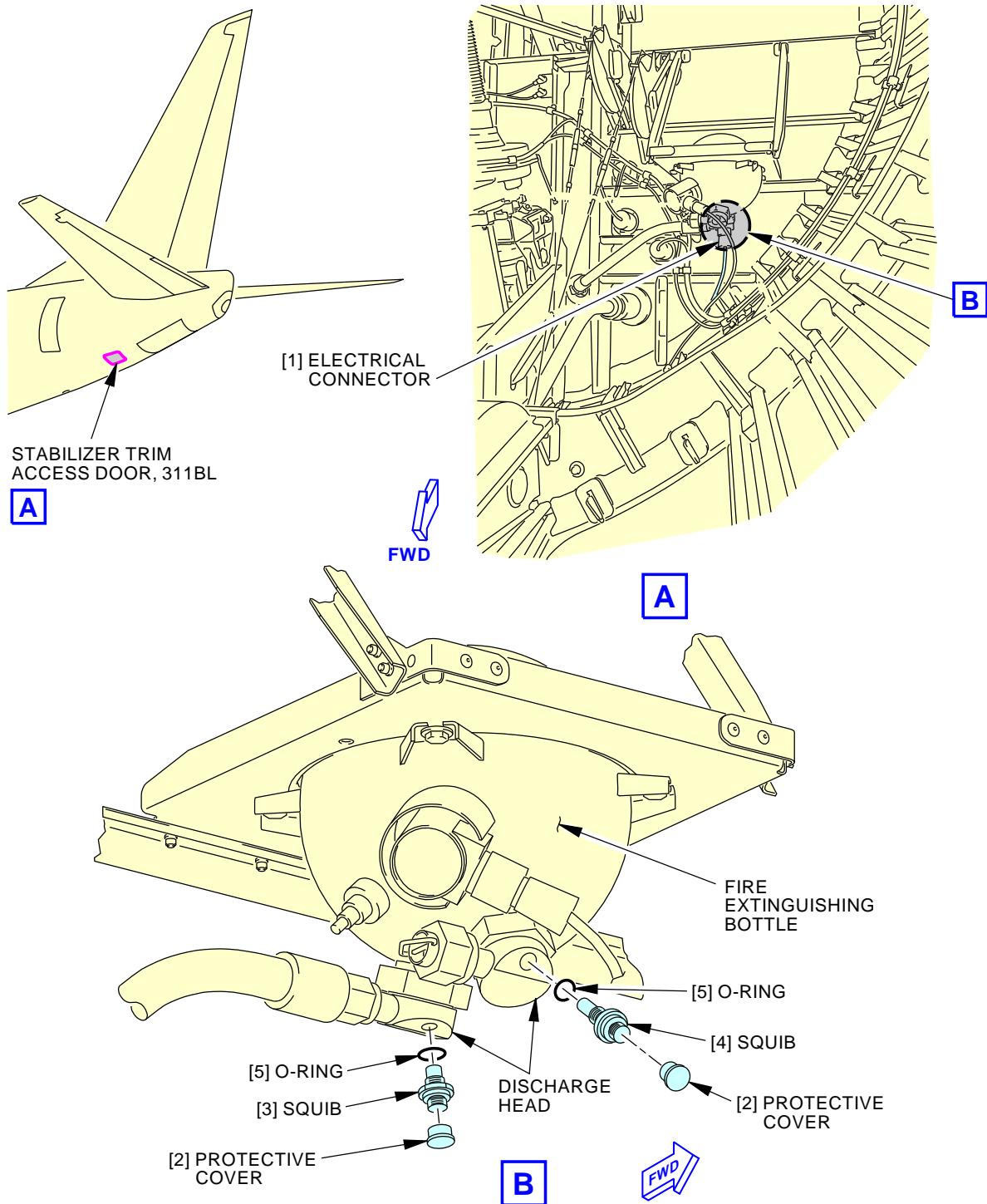
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AIRCRAFT MAINTENANCE MANUAL



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Auxiliary Power Unit (APU) Fire Extinguishing Bottle Squib Installation
Figure 401/26-22-02-990-801

EFFECTIVITY
AKS ALL

26-22-02

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AIRCRAFT MAINTENANCE MANUAL

TASK 26-22-02-400-801

3. APU Fire Extinguishing Bottle Squib Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536
STD-1079	Resistor - 10K Ohm or Greater

C. Consumable Materials

Reference	Description	Specification
D00652	Lubricant - O-Ring - Parker Super-O-Lube	
D50287	Lubricant - O-Ring, Drilube 822	MMS-N306A
G02392 [P05-262]	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8121 mm) Diameter	NASM20995

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Squib	26-22-01-01-080	AKS ALL
4	Squib	26-21-60-01-060	AKS ALL
		26-22-01-01-085	AKS ALL
5	O-ring	26-22-01-01-077	AKS ALL

E. Location Zones

Zone	Area
212	Flight Compartment - Right
311	Area Aft of Pressure Bulkhead - Left



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F. Access Panels

<u>Number</u>	<u>Name/Location</u>
311BL	Stabilizer Trim Access Door

G. Prepare for the Installation

SUBTASK 26-22-02-860-002

- (1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	19	C01344	APU FIRE SW POWER
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

H. APU Fire Extinguishing Bottle Squib Installation

SUBTASK 26-22-02-420-001

- (1) Do these steps to install the squib in the fire extinguishing bottle:

WARNING: DO NOT TOUCH THE SQUIB BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (a) Before you touch the squib, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:
 - ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
 - ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.
- (b) Lubricate a new O-ring [5] with O-ring lubricant, D50287 or Parker Super-O-Lube lubricant, D00652 and put it on the squib [3].
- (c) Install the squib [3] in the fire bottle.
 - 1) Torque the squib [3] to 90 in-lb (10.2 N·m) – 100 in-lb (11.3 N·m).
 - 2) Install MS20995C32 lockwire, G02392 [P05-262], between the squib [3] and the discharge outlet.
- (d) Remove the protective cover [2] from the squib [3].

SUBTASK 26-22-02-700-001

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (2) Do this to make sure that there is no stray voltage at the electrical squib connector:

Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

EFFECTIVITY
AKS ALL

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- (a) Connect the digital/analog multimeter, COM-1793, across the two pins.
- (b) Make sure that the current is less than 5 mA.
- (c) Connect a resistor, STD-1079, across the multimeter probes.
- (d) Make sure that the voltage is less than .250 V.
- (e) If necessary, repeat the steps above for the other squib electrical connectors.
- (f) Disconnect the multimeter.

SUBTASK 26-22-02-420-002

- (3) Connect the electrical connector [1] to the squib [3].

NOTE: The squib pins can cause damage to the electrical connector if the pins do not correctly engage the electrical connector.

SUBTASK 26-22-02-420-003

- (4) If squib [4] was removed, lubricate and install a new O-ring [5] on the squib [4] and install the squib in the fire bottle.
 - (a) Torque the squib [4] to 90 in-lb (10.2 N·m) – 100 in-lb (11.3 N·m).
 - (b) Install MS20995C32 lockwire, G02392 [P05-262], between the squib [4] and discharge outlet.
- (5) Make sure a protective cap is installed on squib [4].

SUBTASK 26-22-02-860-003

- (6) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	19	C01344	APU FIRE SW POWER
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

F/O Electrical System Panel, P6-4

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

I. APU Fire Extinguishing Bottle Squib Installation Test

SUBTASK 26-22-02-740-001

- (1) Set the EXT TEST switch on the P8-1 panel to 1.
 - (a) Make sure the APU light comes on.

NOTE: The L and R lights will also come on.

SUBTASK 26-22-02-740-002

- (2) Set the EXT TEST switch on the P8-1 panel to 2.
 - (a) Make sure the APU light comes on.

NOTE: The L and R lights will also come on.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 26-22-02-010-002

- (1) Close this access door:

<u>Number</u>	<u>Name/Location</u>
311BL	Stabilizer Trim Access Door

— END OF TASK —

EFFECTIVITY
AKS ALL

26-22-02



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REMOTE APU CONTROL PANEL - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the Remote APU Control Panel (P28).
 - (2) An installation of the Remote APU Control Panel.
- B. The Remote APU Control Panel is located on the aft bulkhead of the right main wheel well.

TASK 26-22-03-000-801

2. Remote APU Control Panel Removal

(Figure 401 or Figure 402)

A. General

- (1) This task gives instructions to remove the Remote APU Control Panel.

B. Location Zones

Zone	Area
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right

C. Prepare for the Removal

SUBTASK 26-22-03-860-004

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

D. Remote APU Control Panel Removal

SUBTASK 26-22-03-020-001

- (1) Disconnect the electrical connector from the APU remote control panel [1].

SUBTASK 26-22-03-020-002

- (2) Remove the bolts [2] and washers [3] that hold the upper and lower flange of the APU remote control panel [1].

AKS 001-006

SUBTASK 26-22-03-020-004

- (3) If installed, remove the shims.

NOTE: Shims are located between the top bracket and the upper flange of the remote APU control panel [1].

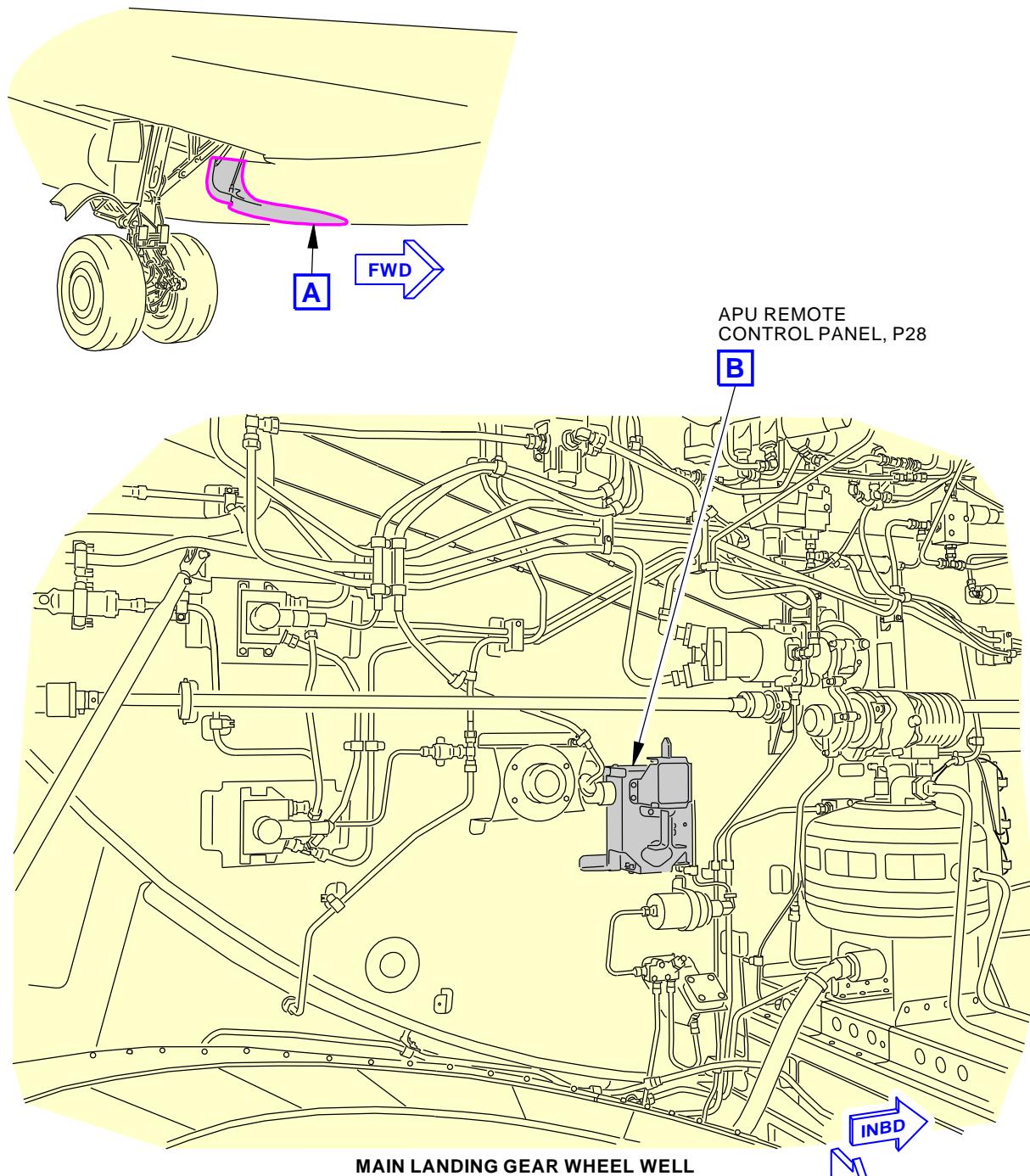
———— END OF TASK ————



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APU Remote Control Panel Installation
Figure 401/26-22-03-990-801 (Sheet 1 of 2)

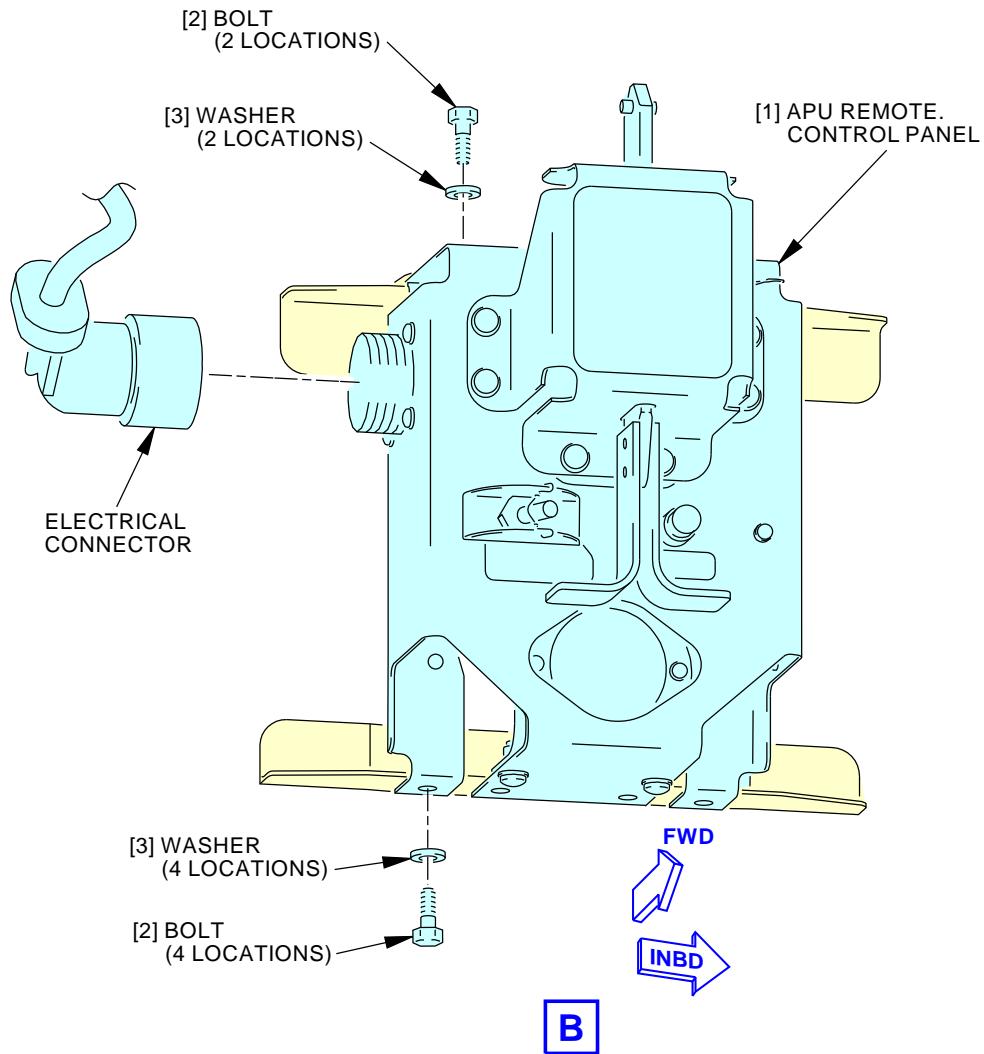
EFFECTIVITY
AKS 001-006

26-22-03

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APU Remote Control Panel Installation
Figure 401/26-22-03-990-801 (Sheet 2 of 2)

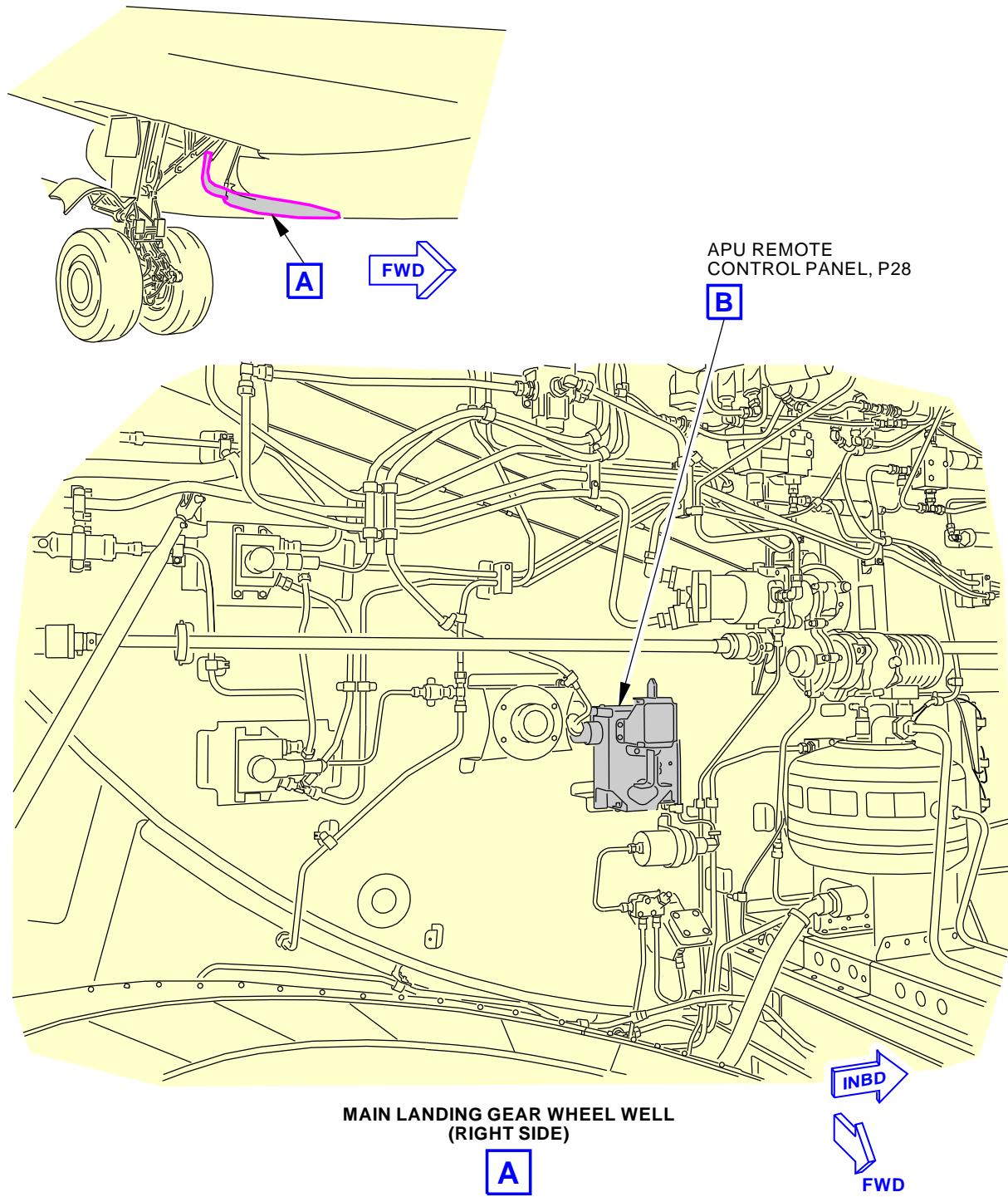
EFFECTIVITY
AKS 001-006

26-22-03

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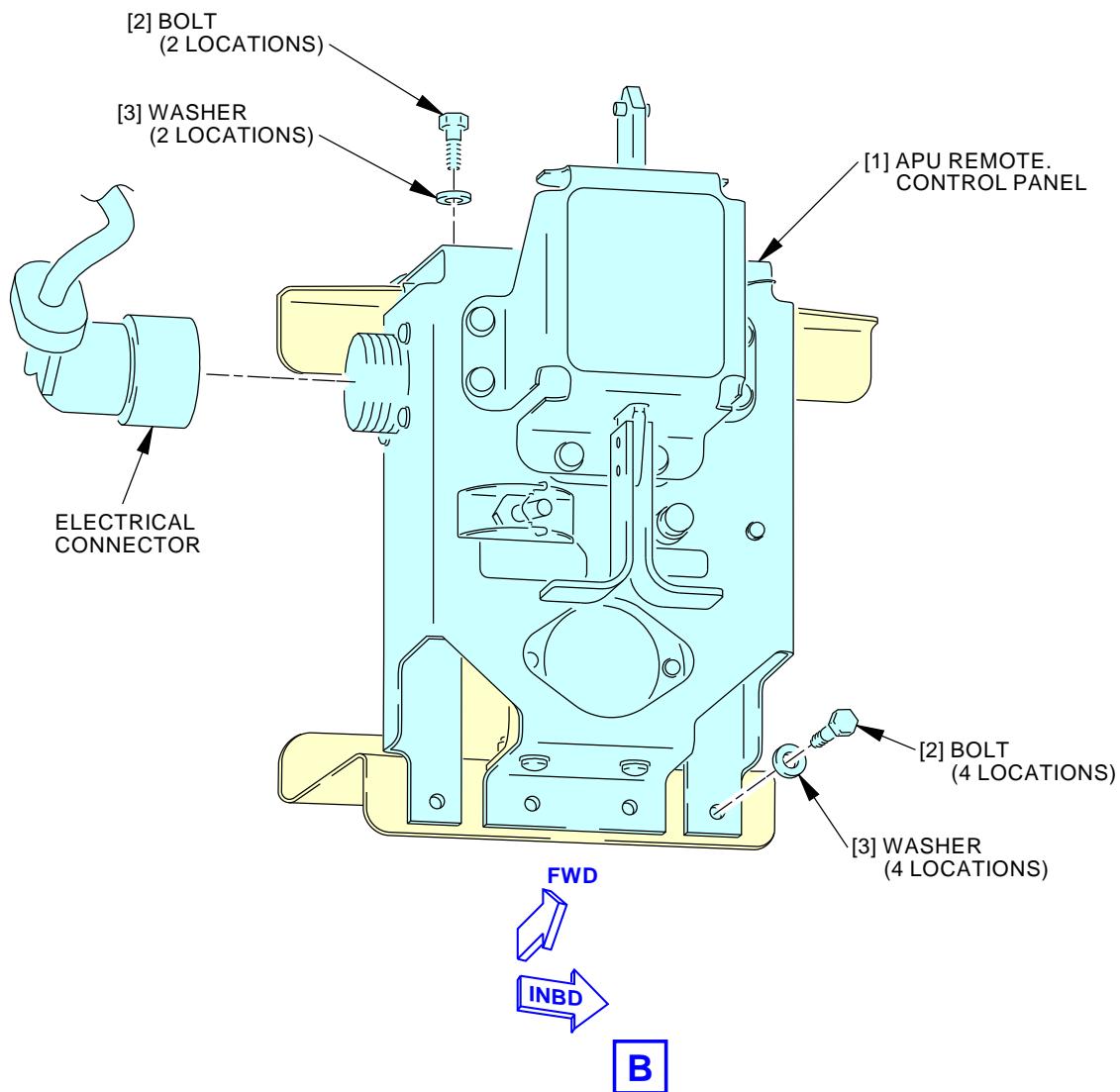
APU Remote Control Panel Installation
Figure 402/26-22-03-990-803 (Sheet 1 of 2)

EFFECTIVITY
AKS 007-999

26-22-03

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APU Remote Control Panel Installation
Figure 402/26-22-03-990-803 (Sheet 2 of 2)

 EFFECTIVITY
 AKS 007-999

26-22-03

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AKS 001-006 (Continued)

TASK 26-22-03-400-801

3. Remote APU Control Panel Installation

(Figure 401 or Figure 402)

A. General

- (1) This task gives instructions to install the Remote APU Control Panel.

B. References

Reference	Title
26-22-00-720-801	APU Fire Switch System Shutdown Test (P/B 501)
26-22-00-730-801	APU Fire Extinguishing Bottle Squib Circuit Test (P/B 501)

C. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

D. Prepare for the installation

SUBTASK 26-22-03-860-005

- (1) Make sure that this circuit breaker is open and has safety tag:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

E. Remote APU Control Panel Installation

SUBTASK 26-22-03-010-001

- (1) Attach the APU remote control panel [1] to the bulkhead with bolts [2] and washers [3].

AKS 001-006

- (a) If needed, install the shims to fill the gap between the top bracket and the upper flange of the APU remote control panel [1].

AKS ALL

SUBTASK 26-22-03-020-003

- (2) Connect the electrical connector to the APU remote control panel [1].

SUBTASK 26-22-03-860-003

- (3) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	21	C00452	FIRE PROTECTION EXTINGUISHERS APU

F. Remote APU Control Panel Installation Test

SUBTASK 26-22-03-710-002

- (1) Do this task: APU Fire Extinguishing Bottle Squib Circuit Test, TASK 26-22-00-730-801.

SUBTASK 26-22-03-710-001

- (2) Do this task: APU Fire Switch System Shutdown Test, TASK 26-22-00-720-801.

— END OF TASK —

EFFECTIVITY
AKS ALL

26-22-03



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REMOTE APU CONTROL PANEL - INSPECTION/CHECK

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has this inspection task:
 - (1) Remote APU Control Panel.

TASK 26-22-03-210-801

2. Remote APU Control Panel

NOTE: This procedure is a scheduled maintenance task.

A. Consumable Materials

Reference	Description	Specification
G50414	Lockwire - MS20995CY15, Copper - 0.015 Inch (0.381 mm) Diameter	NASM20995

B. Location Zones

Zone	Area
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right

C. Procedure

SUBTASK 26-22-03-210-001

- (1) Make sure the remote APU control panel is not damaged.

SUBTASK 26-22-03-210-002

- (2) Make sure the remote APU control panel is securely attached.

SUBTASK 26-22-03-210-003

- (3) Make sure copper MS20995CY15 lockwire, G50414, is installed on the bottle discharge switch on the APU remote fire panel.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

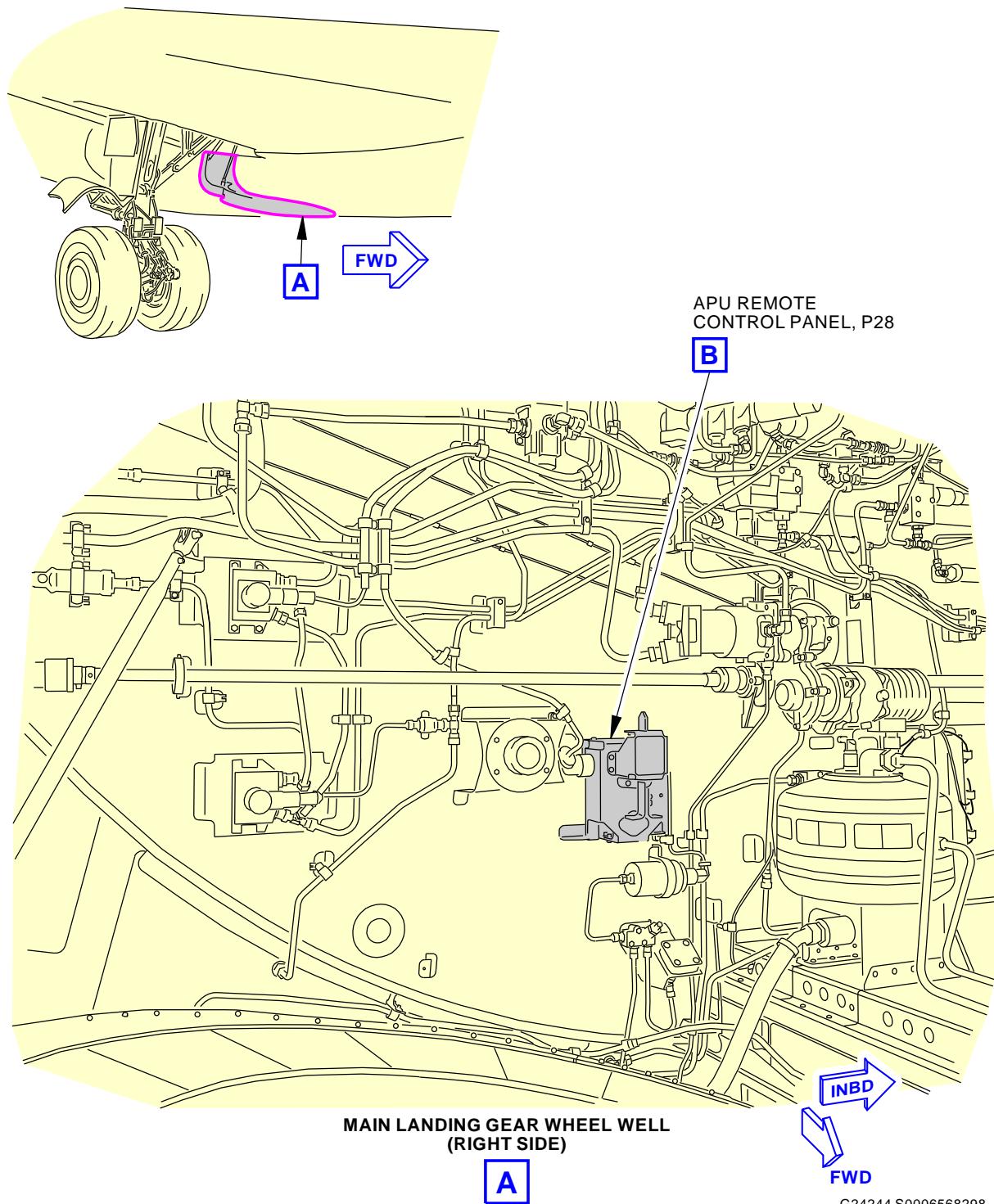
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APU Remote Control Panel
Figure 601/26-22-03-990-802 (Sheet 1 of 2)

EFFECTIVITY
AKS 001-006

26-22-03

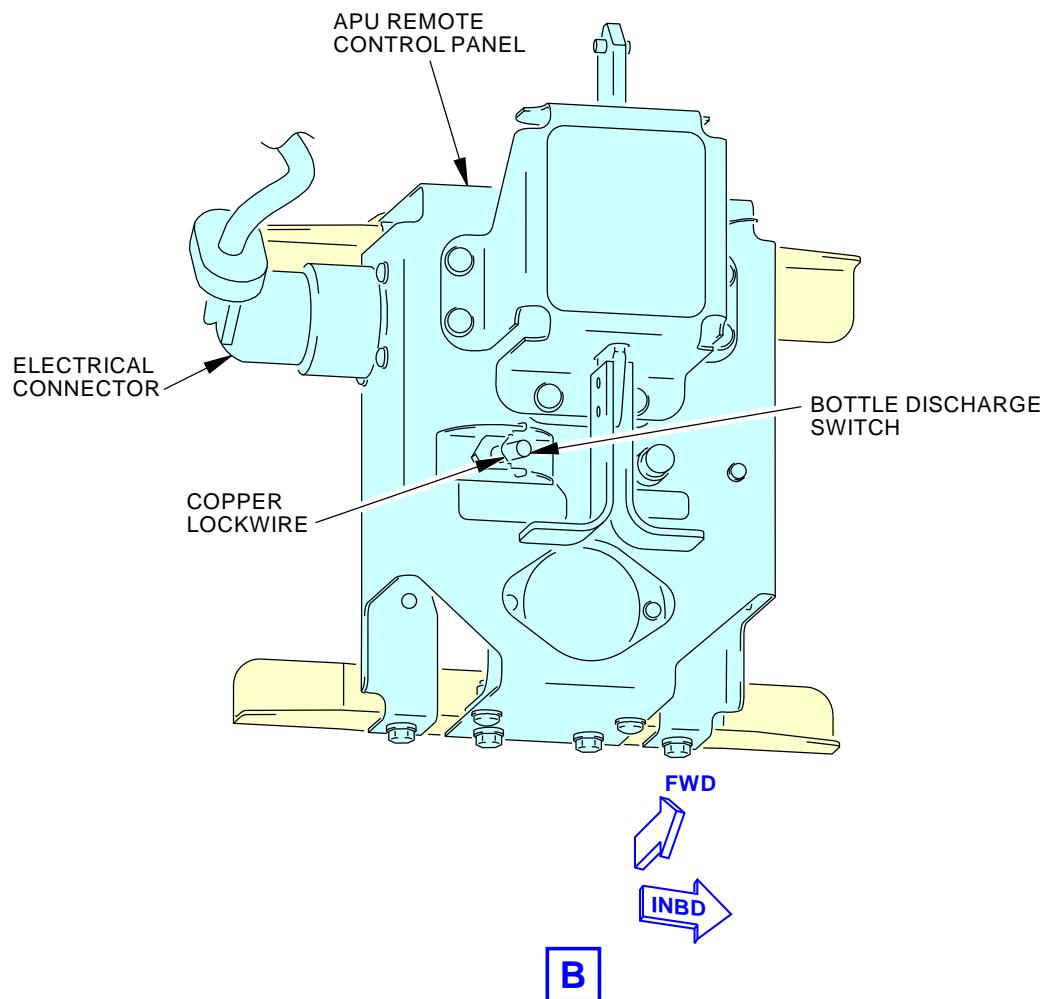
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APU Remote Control Panel
Figure 601/26-22-03-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS 001-006

26-22-03

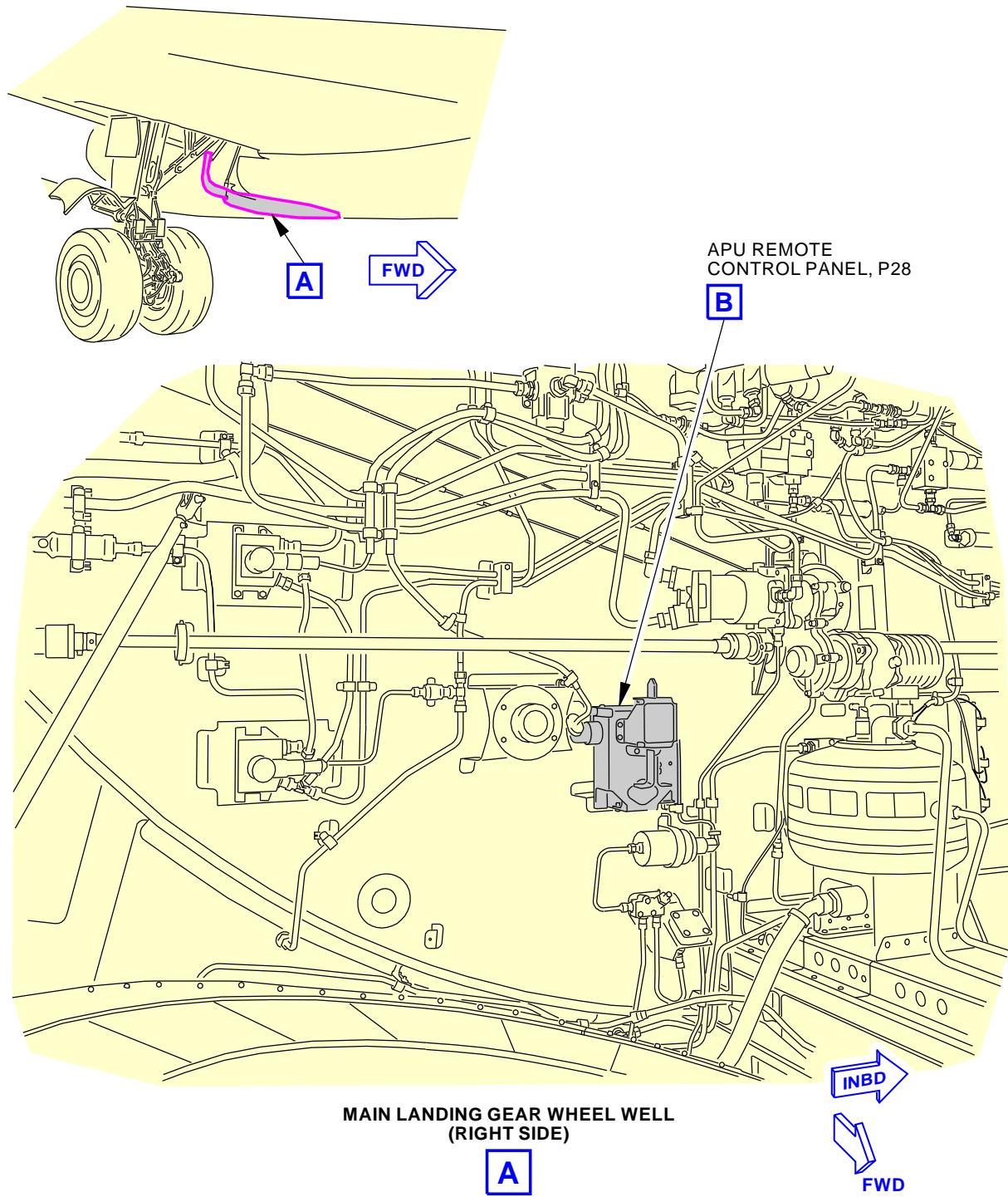
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APU Remote Control Panel Installation
Figure 602/26-22-03-990-804 (Sheet 1 of 2)

EFFECTIVITY
AKS 007-999

26-22-03

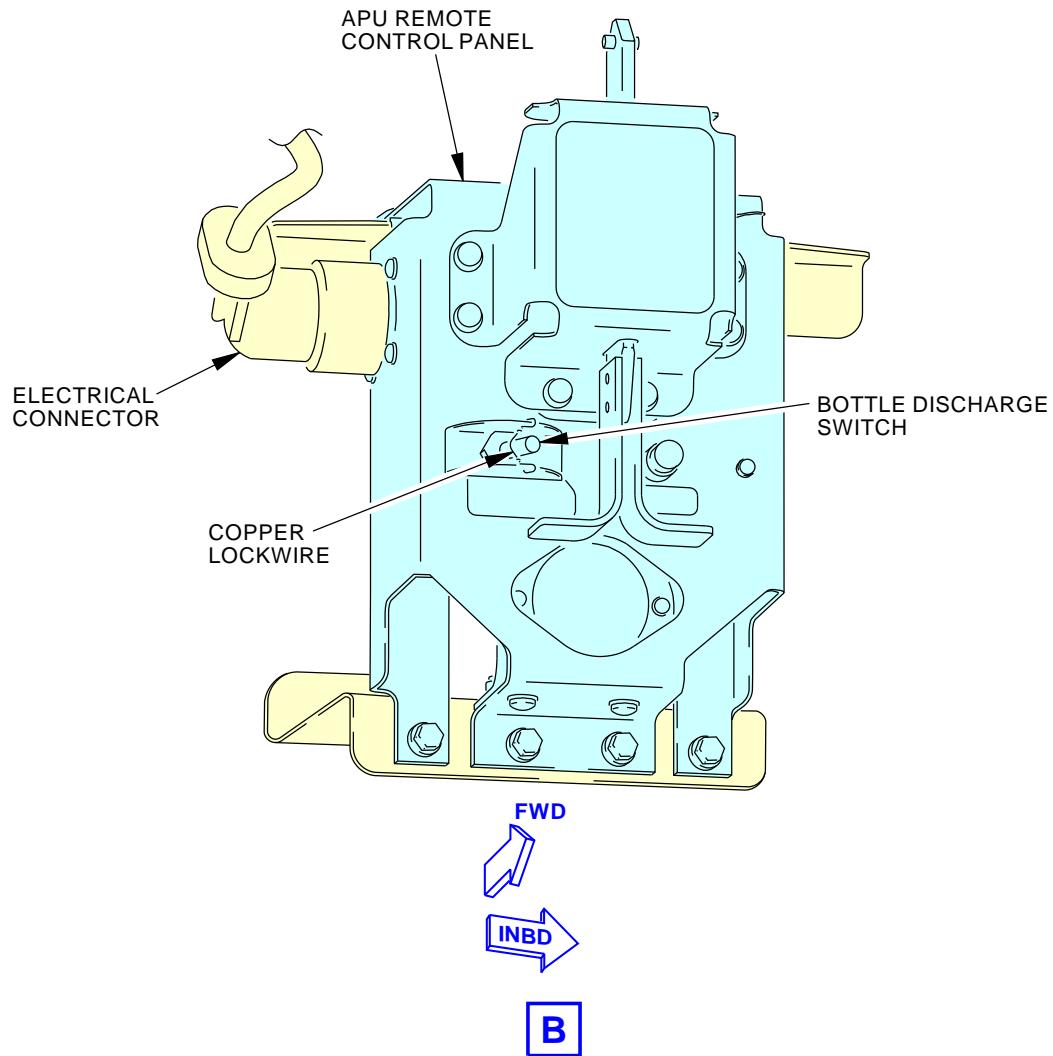
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2338267 S0000532823_V2

APU Remote Control Panel Installation
Figure 602/26-22-03-990-804 (Sheet 2 of 2)

EFFECTIVITY
AKS 007-999

26-22-03

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CARGO FIRE EXTINGUISHING - MAINTENANCE PRACTICES

1. General

- A. This procedure contains these tasks:
- (1) Cargo compartment fire extinguisher bottles and squibs - deactivation.
 - (2) Cargo compartment fire extinguisher bottles and squibs - activation.

TASK 26-23-00-040-801

2. Cargo Compartment Fire Extinguishers and Squibs - Deactivation

A. General

- (1) This task will deactivate the 28 VDC electrical power to the Cargo Compartment Fire Extinguisher Bottle and Squib system.

B. Location Zones

Zone	Area
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right
212	Flight Compartment - Right

C. Procedure

SUBTASK 26-23-00-020-039

- (1) Remove the 28 VDC battery electrical power from the Cargo Compartment Fire Extinguisher and Squib system.

SUBTASK 26-23-00-020-040

- (2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

D. Cargo Compartment Fire Extinguishers and Squibs - Tryout

NOTE: This tryout is to make sure that the electrical power to the Cargo Compartment Fire Extinguisher Bottle and Squib system is in zero state.

SUBTASK 26-23-00-860-061

- (1) On the cargo fire control panel:
 - (a) Push and hold the TEST switch.
 - 1) Make sure that the green FWD and AFT EXT lights on the cargo fire control panel do not come on.
 - (b) Release the TEST switch.

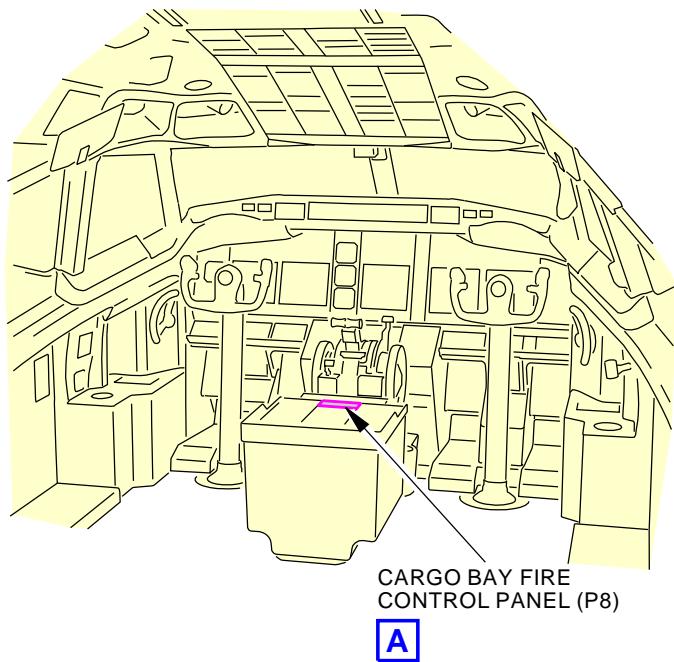
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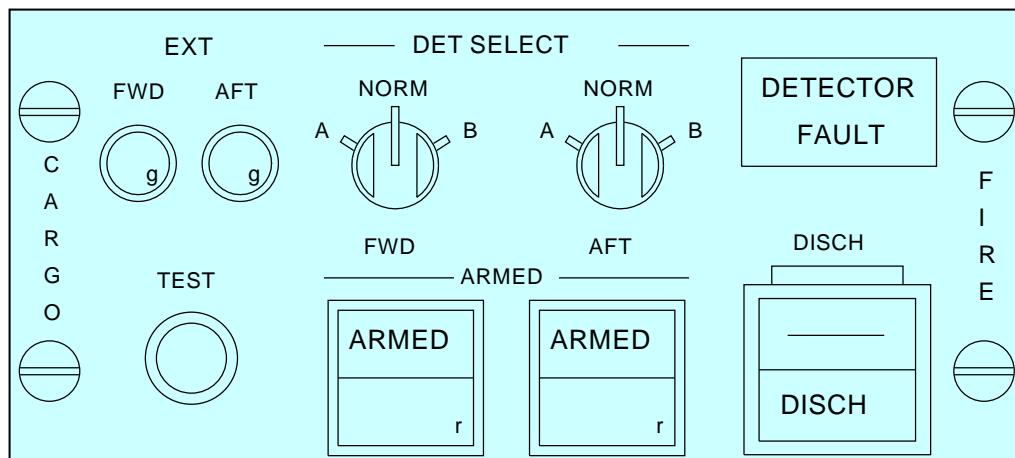
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FLIGHT COMPARTMENT



CARGO BAY FIRE CONTROL PANEL (P8)

A

2360978 S0000539738_V2

Cargo Fire Control Panel
Figure 201/26-23-00-990-807

EFFECTIVITY
AKS ALL

26-23-00

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TASK 26-23-00-440-801

3. Cargo Compartment Fire Extinguishers and Squibs - Activation
(Figure 201)

A. General

- (1) This task will activate the 28 VDC electrical power to the Cargo Compartment Fire Extinguisher Bottle and Squib system.

B. Location Zones

Zone	Area
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right
212	Flight Compartment - Right

C. Procedure

SUBTASK 26-23-00-420-028

- (1) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-23-00



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AIRCRAFT MAINTENANCE MANUAL

CARGO FIRE EXTINGUISHING - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A test of the cargo fire bottle squib circuit
 - (2) A test of the cargo fire bottle pressure switch circuit
 - (3) An airflow test through the discharge tubes
 - (4) A pressure test of the cargo fire bottle discharge tubes

TASK 26-23-00-730-801

2. Cargo Fire Extinguishing Bottle Squib Circuit Test

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
32-09-00-860-801	Put the Airplane in the Air Mode (P/B 201)
32-09-00-860-802	Return the Airplane to the Ground Mode (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536
SPL-1664	Test Box - Cargo Fire Extinguishing System Part #: C26006-70 Supplier: 81205 Opt Part #: C26006-1 Supplier: 81205
STD-1079	Resistor - 10K Ohm or Greater



26-23-00



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C. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Cargo Fire Extinguishing Bottle Squib Circuit Test

SUBTASK 26-23-00-860-005

- (1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

SUBTASK 26-23-00-860-006

- (2) Put the Airplane in the Air Mode, TASK 32-09-00-860-801.

SUBTASK 26-23-00-020-001

WARNING: DO NOT TOUCH THE SQUIB BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (3) Before you touch the squib, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:
 - ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
 - ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.
- (4) Disconnect the electrical connectors from the squibs.
 - (a) Disconnect D12794 from bottle 1 to test the forward cargo compartment.
 - (b) Disconnect D12818 from bottle 2 to test the forward cargo compartment.
 - (c) Disconnect D12796 from bottle 1 to test the aft cargo compartment.
 - (d) Disconnect D12820 from bottle 2 to test the aft cargo compartment.

SUBTASK 26-23-00-020-002

WARNING: PUT A PROTECTIVE CAP ON THE SQUIB. IF YOU DO NOT PUT A PROTECTIVE CAP ON THE SQUIB, THE FIRE EXTINGUISHING BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

- (5) Install a protective cap on each squib.

SUBTASK 26-23-00-480-018

- (6) Connect the squib connectors to the applicable connectors on test box, SPL-1664.

SUBTASK 26-23-00-730-010

- (7) Set all the switches on the test box to NO DISCHARGE.

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SUBTASK 26-23-00-730-011

- (8) Make sure all the circuit breakers on the test box are closed.

SUBTASK 26-23-00-860-008

- (9) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

SUBTASK 26-23-00-730-012

- (10) Make sure none of the circuit breakers on the test box open.

SUBTASK 26-23-00-730-001

WARNING: MAKE SURE THE AREA OF THE AFT OUTFLOW VALVE IS CLEAR OF PERSONS AND EQUIPMENT. DURING THIS TEST THE AFT OUTFLOW VALVE DOORS CAN START TO OPERATE. THIS CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (11) Do a test of the forward cargo fire bottle squib circuit.

- (a) Set the EXT 1 FWD switch on the test box to DISCHARGE.
- (b) Push the FWD ARMED switch on the Cargo Fire Control panel.
- (c) Push and hold the DISCH switch on the Cargo Fire Control panel for approximately 15 seconds.
- (d) Make sure the EXT 1 FWD circuit breaker opens.
- (e) Make sure the other circuit breakers stay closed.
- (f) Close the EXT 1 FORWARD circuit breaker.
- (g) Set the EXT 1 FORWARD switch to NO DISCHARGE.
- (h) Set the EXT 2 FORWARD switch S1 on the test box to DISCHARGE.
- (i) Wait 60 ± 6 minutes, then make sure the EXT 2 FORWARD circuit breaker opens.
- (j) Make sure the other circuit breakers stay closed.
- (k) Close the EXT 2 FORWARD circuit breaker.
- (l) Set the EXT 2 FORWARD switch S1 to NO DISCHARGE.
- (m) Push the FWD ARM switch, on the Cargo Fire Control Panel, to the usual position.

SUBTASK 26-23-00-730-002

WARNING: MAKE SURE THE AREA OF THE AFT OUTFLOW VALVE IS CLEAR OF PERSONS AND EQUIPMENT. DURING THIS TEST THE AFT OUTFLOW VALVE DOORS CAN START TO OPERATE. THIS CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (12) Do a test of the aft cargo fire bottle squib circuit.

- (a) Set the EXT 1 AFT switch on the test box to DISCHARGE.
- (b) Push the AFT ARMED switch on the Cargo Fire Control panel.



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- (c) Push and hold the DISCH switch on the Cargo Fire Control panel for approximately 15 seconds.
- (d) Make sure the EXT 1 AFT circuit breaker opens.
- (e) Make sure the other circuit breakers stay closed.
- (f) Close the EXT 1 AFT circuit breaker.
- (g) Set the EXT 1 AFT switch to NO DISCHARGE.
- (h) Set the EXT 2 AFT switch S2 on the test box to DISCHARGE.
- (i) Wait 60 ± 6 minutes, then make sure the EXT 2 AFT circuit breaker opens.
- (j) Make sure the other circuit breakers stay closed.
- (k) Close the EXT 2 AFT circuit breaker.
- (l) Set the EXT 2 AFT switch S2 to NO DISCHARGE.
- (m) Push the AFT ARM switch, on the Cargo Fire Control panel, to the usual position.

SUBTASK 26-23-00-860-009

- (13) Return the Airplane to the Ground Mode, TASK 32-09-00-860-802.

SUBTASK 26-23-00-860-010

- (14) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

SUBTASK 26-23-00-020-038

- (15) Remove the protective cap from the squibs.

SUBTASK 26-23-00-700-001

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (16) Do this to make sure that there is no stray voltage at the electrical squib connector:

Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

- (a) Connect the digital/analog multimeter, COM-1793, across the two pins.
- (b) Make sure that the current is less than 5 mA.
- (c) Connect a resistor, STD-1079, across the multimeter probes.
- (d) Make sure that the voltage is less than .250 V.
- (e) If necessary, repeat the steps above for the other squib electrical connectors.
- (f) Disconnect the multimeter.

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SUBTASK 26-23-00-420-001

(17) Install the connectors:

- (a) Connect D12794 to the forward squib, M2249 on bottle 1.
- (b) Connect D12796 to the aft squib, M2250 on bottle 1.
- (c) Connect D12818 to the forward squib, M2264 on bottle 2.
- (d) Connect D12820 to the aft squib, M2265 on bottle 2.

SUBTASK 26-23-00-860-031

(18) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1
C	16	C01523	CARGO FIRE FWD DET B
C	17	C01522	CARGO FIRE FWD DET A
C	18	C01525	CARGO FIRE AFT DET B
C	19	C01524	CARGO FIRE AFT DET A

SUBTASK 26-23-00-710-001

(19) Push and hold the TEST switch on the Cargo Fire Control panel.

- (a) Make sure the EXT FWD and AFT lights come on.

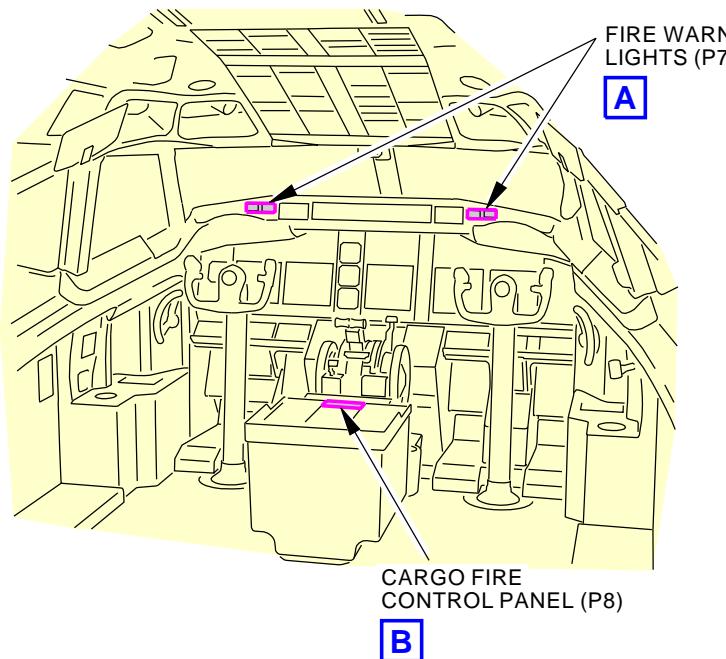
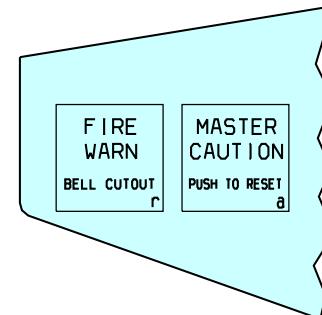
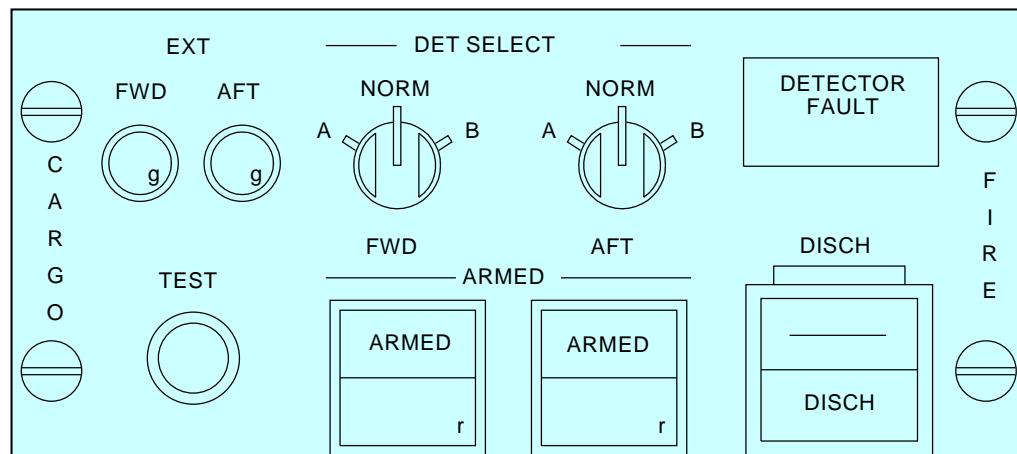
SUBTASK 26-23-00-710-002

(20) Release the TEST switch.

———— END OF TASK ————



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FLIGHT COMPARTMENT

**FIRE WARN LIGHTS (P7)
(EXAMPLE)**
A

CARGO FIRE CONTROL PANEL (P8)
B

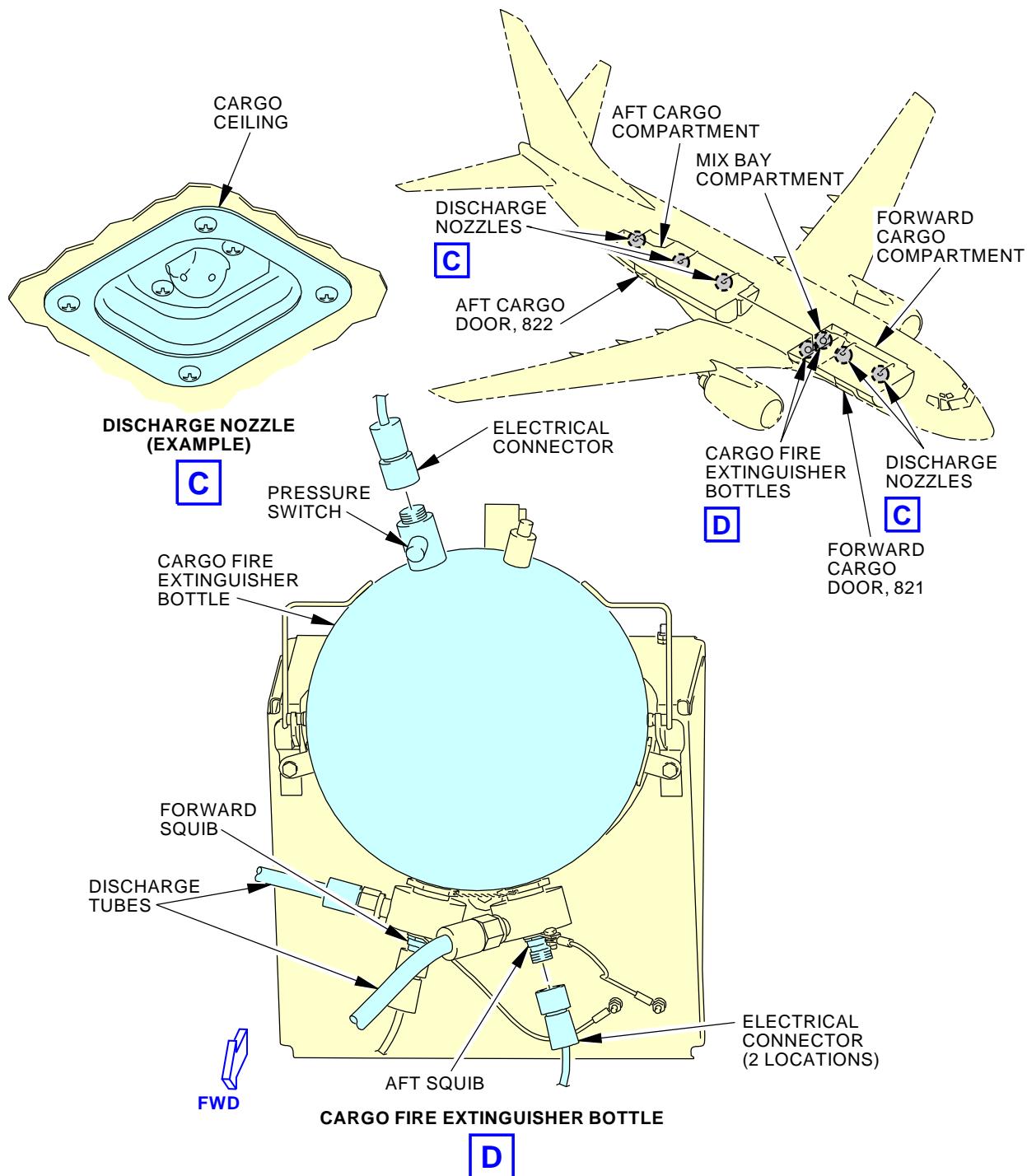
H01949 S0006568307_V2

Cargo Bay Fire Extinguishing Test
Figure 501/26-23-00-990-801 (Sheet 1 of 2)

 EFFECTIVITY
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M97756 S0006568311_V2

Cargo Bay Fire Extinguishing Test
Figure 501/26-23-00-990-801 (Sheet 2 of 2)

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TASK 26-23-00-730-802

3. Cargo Fire Extinguishing Bottle Pressure Switch Circuit Test

(Figure 501)

A. General

- (1) The pressure switch test should be performed every time the cargo Fire Control Panel, or a pressure switch is disconnected from the airplane wiring.

B. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Cargo Fire Extinguishing Bottle Pressure Switch Test

AKS ALL; AIRPLANES WITH FIRE BOTTLES WITH MANUAL OVERRIDE ON THE PRESSURE SWITCH

SUBTASK 26-23-00-710-007

- (1) Do a test of the fire extinguisher pressure switch.
 - (a) Push and hold the pressure switch manual-override button on the fire extinguisher bottle.
 - (b) Make sure the yellow DISCH light on the cargo fire control panel, P8, comes on.
 - (c) Release the pressure switch manual-override button on the fire extinguisher bottle.
 - (d) Make sure the DISCH light on the cargo fire control panel, P8, goes off.

AKS ALL; AIRPLANES WITH FIRE BOTTLES WITHOUT MANUAL OVERRIDE ON THE PRESSURE SWITCH

SUBTASK 26-23-00-020-003

- (2) Do a test of the fire extinguisher pressure switch.
 - (a) Disconnect connector D12792 from the pressure switch on cargo fire bottle 1.
 - (b) Disconnect connector D12816 from the pressure switch on cargo fire bottle 2.
 - (c) Do a test of the cargo fire bottle pressure switch circuit.
 - 1) Connect a jumper wire between pins 2 and 3 on D12792.
 - 2) Connect a jumper wire between pins 2 and 3 on D12816.
 - 3) Make sure the DISCH light on the Cargo Fire Control panel comes on.
 - 4) Remove the jumper from D12792.
 - 5) Remove the jumper from D12816.
 - (d) Connect D12792 to the pressure switch on cargo fire bottle 1.
 - (e) Connect D12816 to the pressure switch on cargo fire bottle 2.

AKS ALL

———— END OF TASK ———

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TASK 26-23-00-720-801

4. Cargo Fire Extinguishing Discharge Line Flow Test

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) The cargo fire extinguishing discharge line flow test makes sure there is nothing blocking the discharge lines.
- (2) There are two bottles on the airplane. The contents of bottle 1 is released when the discharge switch is pushed. Bottle 2 is discharged 60 minutes later through a flow filter/dryer. In this test, the discharge lines will be removed from bottle 1, and from the output of the filter/dryers. The flow will be checked from the output of bottle 1 through the discharge nozzles and the filter/dryer output line.

B. Tools/Equipment

Reference	Description
STD-1115	Source - Nitrogen, 0-100 PSIG

C. Consumable Materials

Reference	Description	Specification
D50004	Compound - Antiseize	BMS3-28
G50136	Compound - Corrosion Inhibiting, Non-drying	BMS3-38
G50237	Compound - Corrosion Inhibiting, Non-drying - Cor-Ban 27L	BMS3-38, NSN 6850-01-469-7645

D. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

E. Cargo Fire Extinguishing Discharge Line Flow Test

SUBTASK 26-23-00-030-002

CAUTION: USE TWO WRENCHES TO LOOSEN OR TIGHTEN THE FITTING. IF YOU TWIST THE TUBE OR FITTING, YOU CAN CAUSE DAMAGE TO THEM.

- (1) Remove the discharge tubes from the discharge outlets on cargo fire bottle 1.

SUBTASK 26-23-00-020-017

- (2) Remove the discharge tubes from the outputs of the two pressure filter/dryers connected to bottle 2.

SUBTASK 26-23-00-480-001

CAUTION: DO NOT APPLY AIR PRESSURE TO THE OUTPUT OF THE PRESSURE FILTER/DRYER OR YOU COULD DAMAGE THE FILTER/DRYER.

- (3) Connect a 0-100 PSIG nitrogen source, STD-1115 to the forward (yellow) cargo bottle discharge line at bottle 1.

NOTE: Alternate pressure sources can be used. The pressure source must have an accuracy of 1 PSIG and be capable of applying a pressure of 35 to 50 PSIG.

- (a) Make sure air is flowing through all open nozzles in the forward cargo compartment.

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- (b) Make sure air is flowing through the output line that was removed from the forward filter/dryer of bottle 2.

SUBTASK 26-23-00-080-032

- (4) Remove the pressure source from the discharge line.

SUBTASK 26-23-00-480-002

CAUTION: DO NOT APPLY AIR PRESSURE TO THE OUTPUT OF THE PRESSURE FILTER/DRYER OR YOU COULD DAMAGE THE FILTER/DRYER.

- (5) Connect a 0-100 PSIG nitrogen source, STD-1115 to the aft (blue) cargo bottle discharge line at bottle 1.

NOTE: Alternate pressure sources can be used. The pressure source must have an accuracy of 1 PSIG and be capable of applying a pressure of 35 to 50 PSIG.

- (a) Make sure air is flowing through all open nozzles in the aft cargo compartment.
(b) Make sure air is flowing through the output line that was removed from the aft filter/dryer connected to fire bottle 2.

SUBTASK 26-23-00-080-003

- (6) Remove the pressure source from the discharge line.

SUBTASK 26-23-00-420-003

- (7) Connect the discharge tubes to the discharge outlets on bottle 1.

WARNING: DO NOT GET THE CORROSION-INHIBITING COMPOUND ON YOUR SKIN, IN YOUR EYES, OR ON YOUR CLOTHES. THE COMPOUND IS POISONOUS AND FLAMMABLE. USE APPROVED GLOVES, AND EYE PROTECTION. MAKE SURE THAT THERE IS GOOD AIRFLOW IN THE WORK AREA. KEEP THE COMPOUND AWAY FROM SPARKS AND FLAMES. THE COMPOUND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (a) Apply a layer of compound, D50004 to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.

1) Permitted alternative anti-corrosion compounds to use in this location are Cor-Ban 27L Compound, G50237 or corrosion inhibiting compound, G50136.

- (b) Connect the tube assemblies to the discharge heads.

NOTE: The tube assemblies that are marked in yellow supply the extinguishing agent to the forward cargo compartment and the ones marked in blue supply the aft cargo compartment.

- (c) Remove any unwanted compound.

- (d) Tighten the nuts on the tube assemblies to these torque values:

Discharge Tube Torque Values

Nut Size	Tube Outer Diameter	Torque (MIN)	Torque (MAX)
7/8 in	1/2 in	266 in-lb (30 N·m)	294 in-lb (33 N·m)
1 in	5/8 in	342 in-lb (39 N·m)	378 in-lb (43 N·m)

SUBTASK 26-23-00-420-016

- (8) Connect the discharge tubes to the discharge outlets on the filter/dryers connected to fire bottle 2.

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WARNING: DO NOT GET THE CORROSION-INHIBITING COMPOUND ON YOUR SKIN, IN YOUR EYES, OR ON YOUR CLOTHES. THE COMPOUND IS POISONOUS AND FLAMMABLE. USE APPROVED GLOVES, AND EYE PROTECTION. MAKE SURE THAT THERE IS GOOD AIRFLOW IN THE WORK AREA. KEEP THE COMPOUND AWAY FROM SPARKS AND FLAMES. THE COMPOUND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (a) Apply a layer of compound, D50004 to the outlet threads, outlet end, and outlet inner diameter where the tube assemblies attach to the filter/dryers.
 - 1) Permitted alternative anti-corrosion compounds to use in this location are Cor-Ban 27L Compound, G50237 or corrosion inhibiting compound, G50136.

- (b) Connect the tube assemblies to the filter/dryers.

NOTE: The tube assemblies that are marked in yellow supply the extinguishing agent to the forward cargo compartment and the ones marked in blue supply the aft cargo compartment.

- (c) Remove any unwanted compound.
- (d) Tighten the nuts on the tube assemblies to these torque values:

Discharge Tube Torque Values

Nut Size	Tube Outer Diameter	Torque (MIN)	Torque (MAX)
7/8 in	1/2 in	266 in-lb (30 N·m)	294 in-lb (33 N·m)
1 in	5/8 in	342 in-lb (39 N·m)	378 in-lb (43 N·m)

————— END OF TASK ————

TASK 26-23-00-730-803

5. Cargo Fire Extinguishing Discharge Line Pressure Test

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) The pressure test is the same for all cargo compartments.

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-1648	Discharge Lines - Cargo Fire Extinguisher Nozzle Caps Part #: B26002-1 Supplier: 81205
STD-1115	Source - Nitrogen, 0-100 PSIG

C. Consumable Materials

Reference	Description	Specification
D50004	Compound - Antiseize	BMS3-28
G50136	Compound - Corrosion Inhibiting, Non-drying	BMS3-38
G50237	Compound - Corrosion Inhibiting, Non-drying - Cor-Ban 27L	BMS3-38, NSN 6850-01-469-7645

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D. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

E. Cargo Fire Extinguishing Discharge Line Pressure Test

SUBTASK 26-23-00-020-005

CAUTION: USE TWO WRENCHES TO LOOSEN OR TIGHTEN THE FITTING. IF YOU TWIST THE TUBE OR FITTING, YOU CAN CAUSE DAMAGE TO THEM.

- (1) Remove the discharge tubes from the discharge outlets on cargo fire bottle 1.

SUBTASK 26-23-00-020-018

- (2) Remove the discharge tubes from the filter/dryer outputs on cargo fire bottle 2.
 - (a) Plug the discharge tubes.

SUBTASK 26-23-00-480-003

- (3) Connect a 0-100 PSIG nitrogen source, STD-1115, to the forward (yellow) cargo bottle 1 discharge line.

NOTE: Alternate pressure sources can be used. The pressure source must have an accuracy of 1 PSIG and be capable of applying a pressure of up to 55 PSIG.

SUBTASK 26-23-00-480-004

- (4) Install the nozzle caps, SPL-1648, on the fire extinguishing nozzles in the forward cargo compartment.

SUBTASK 26-23-00-780-001

- (5) Pressurize the fire extinguishing plumbing to 50-55 psig (344.7-379.2 kPa).
 - (a) Wait at least 3 minutes for the air pressure to stabilize.

SUBTASK 26-23-00-780-002

- (6) Turn off the pressure source.
 - (a) Record the stabilized air pressure.
 - (b) Wait 10 minutes, then check the pressure.
 - 1) Make sure the pressure loss during the 10 minute waiting period is not more than 5.0 psi (3.4 kPa).

SUBTASK 26-23-00-780-003

- (7) Bleed the fire extinguishing plumbing to 0 psi and disconnect the pressure source.

SUBTASK 26-23-00-080-004

- (8) Remove the nozzle caps, SPL-1648, from the discharge nozzles in the forward cargo compartment.

SUBTASK 26-23-00-480-005

- (9) Connect a 0-100 PSIG nitrogen source, STD-1115, to the aft (blue) cargo bottle 1 discharge line.

NOTE: Alternate pressure sources can be used. The pressure source must have an accuracy of 1 PSIG and be capable of applying a pressure of up to 55 PSIG.



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SUBTASK 26-23-00-480-006

- (10) Install the nozzle caps, SPL-1648, on the fire extinguishing nozzles in the aft cargo compartment.

SUBTASK 26-23-00-780-004

- (11) Pressurize the fire extinguishing plumbing to 50-55 psig (344.7-379.2 kPa).
(a) Wait at least 3 minutes for the air pressure to stabilize.

SUBTASK 26-23-00-780-005

- (12) Turn off the pressure source.
(a) Record the stabilized air pressure.
(b) Wait 10 minutes, then check the pressure.
1) Make sure the pressure loss during the 10 minute waiting period is not more than 5.0 psi (3.4 kPa).

SUBTASK 26-23-00-780-006

- (13) Bleed the fire extinguishing plumbing to 0 psi and disconnect the pressure source.

SUBTASK 26-23-00-080-005

- (14) Remove the nozzle caps, SPL-1648, from the discharge nozzles in the aft cargo compartment.

SUBTASK 26-23-00-080-018

- (15) Remove the plugs from the filter/dryer output lines on cargo fire bottle 2.

SUBTASK 26-23-00-420-004

- (16) Connect the discharge tubes to the discharge outlets on bottle 1.

WARNING: DO NOT GET THE CORROSION-INHIBITING COMPOUND ON YOUR SKIN, IN YOUR EYES, OR ON YOUR CLOTHES. THE COMPOUND IS POISONOUS AND FLAMMABLE. USE APPROVED GLOVES, AND EYE PROTECTION. MAKE SURE THAT THERE IS GOOD AIRFLOW IN THE WORK AREA. KEEP THE COMPOUND AWAY FROM SPARKS AND FLAMES. THE COMPOUND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (a) Apply a layer of compound, D50004, (preferred) to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.
1) Permitted alternative anti-corrosion compounds for use in this location are Cor-Ban 27L Compound, G50237, or corrosion inhibiting compound, G50136.

- (b) Connect the tube assemblies to the discharge heads.

NOTE: The tube assemblies that are marked in yellow supply the extinguishing agent to the forward cargo compartment and the ones marked in blue supply the aft cargo compartment.

- (c) Remove any unwanted compound.

- (d) Tighten the nuts on the tube assemblies to these torque values:

Discharge Tube Torque Values

Nut Size	Tube Outer Diameter	Torque (MIN)	Torque (MAX)
7/8 in	1/2 in	266 in-lb (30 N·m)	294 in-lb (33 N·m)
1 in	5/8 in	342 in-lb (39 N·m)	378 in-lb (43 N·m)

SUBTASK 26-23-00-020-019

- (17) Connect the discharge tubes to the filter/dryer outputs on cargo fire bottle 2.

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WARNING: DO NOT GET THE CORROSION-INHIBITING COMPOUND ON YOUR SKIN, IN YOUR EYES, OR ON YOUR CLOTHES. THE COMPOUND IS POISONOUS AND FLAMMABLE. USE APPROVED GLOVES, AND EYE PROTECTION. MAKE SURE THAT THERE IS GOOD AIRFLOW IN THE WORK AREA. KEEP THE COMPOUND AWAY FROM SPARKS AND FLAMES. THE COMPOUND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (a) Apply a layer of compound, D50004, (preferred) to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.
 - 1) Permitted alternative anti-corrosion compounds for use in this location are Cor-Ban 27L Compound, G50237, or corrosion inhibiting compound, G50136.

- (b) Connect the tube assemblies to the discharge heads.

NOTE: The tube assemblies that are marked in yellow supply the extinguishing agent to the forward cargo compartment and the ones marked in blue supply the aft cargo compartment.

- (c) Remove any unwanted compound.

- (d) Tighten the nuts on the tube assemblies to these torque values:

Discharge Tube Torque Values

Nut Size	Tube Outer Diameter	Torque (MIN)	Torque (MAX)
7/8 in	1/2 in	266 in-lb (30 N·m)	294 in-lb (33 N·m)
1 in	5/8 in	342 in-lb (39 N·m)	378 in-lb (43 N·m)

———— END OF TASK ————

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CARGO COMPARTMENT FIRE EXTINGUISHER BOTTLE - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. A cargo fire extinguisher bottle is installed in the mix manifold bay, in the aft end of the lower fwd cargo compartment.
- C. A second cargo fire extinguisher bottle is also installed in the mix manifold bay.
- D. This procedure has tasks to remove and install the cargo fire extinguisher bottle.

TASK 26-23-01-000-801-001

2. Cargo Fire Extinguisher Bottle Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to remove the Cargo Fire Extinguisher Bottle.

B. References

Reference	Title
20-10-33-000-801	Power Device Cartridge (Squib) Removal (P/B 401)
26-23-04-000-801	Cargo Fire Extinguishing Filter/Dryer Removal (P/B 401)
26-23-04-400-801	Cargo Fire Extinguishing Filter/Dryer Installation (P/B 401)

C. Location Zones

Zone	Area
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right

D. Access Panels

Number	Name/Location
821	Forward Cargo Door

E. Prepare for the Removal

SUBTASK 26-23-01-960-004-001

- (1) When the extinguisher bottles are discharged, the filter/dryer must also be replaced. Do these tasks:
 - (a) Cargo Fire Extinguishing Filter/Dryer Removal, TASK 26-23-04-000-801.
 - (b) Cargo Fire Extinguishing Filter/Dryer Installation, TASK 26-23-04-400-801.

SUBTASK 26-23-01-860-016-001

- (2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

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SUBTASK 26-23-01-010-020

- (3) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
821	Forward Cargo Door

SUBTASK 26-23-01-860-003-001

- (4) Remove the lining at the aft end of the forward cargo compartment to get access to the air conditioning distribution bay.

SUBTASK 26-23-01-860-004-001

- (5) If it is necessary, remove the air conditioning duct that is in front of the fire extinguishing bottle.

F. Cargo Fire Extinguisher Bottle Removal

SUBTASK 26-23-01-020-001-001

- (1) Disconnect the electrical connectors from the cargo fire extinguisher bottle [1].

WARNING: DO NOT TOUCH THE PINS ON THE SQUIB. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (a) Before you touch the squibs, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:
 - Power Device Cartridge (Squib) Removal, TASK 20-10-33-000-801
- (b) Disconnect the pressure switch connector, D12792 from cargo fire extinguisher bottle [1].
- (c) Disconnect the FWD squib (M2249) connector, D12794 from cargo fire extinguisher bottle [1].
- (d) Disconnect the AFT squib (M2250) connector, D12796 from cargo fire extinguisher bottle [1].
- (e) Disconnect the pressure switch connector, D12816 from No. 2 cargo fire extinguisher bottle [1].
- (f) Disconnect the FWD squib (M2264) connector, D12818 from No. 2 cargo fire extinguisher bottle [1].
- (g) Disconnect the AFT squib (M2265) connector, D12820 from No. 2 cargo fire extinguisher bottle [1].

SUBTASK 26-23-01-480-001-001

WARNING: PUT A PROTECTIVE CAP ON THE SQUIBS. IF YOU DO NOT PUT A PROTECTIVE CAP ON THE SQUIBS, THE FIRE BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

- (2) Put a protective cap on the bottle squibs.

SUBTASK 26-23-01-020-002-001

- (3) Remove the nut [4] securing the ground strap to the bottle ground lug.

SUBTASK 26-23-01-860-005-001

- (4) Disconnect the discharge tubes from the bottle discharge ports.

SUBTASK 26-23-01-420-044

- (5) Install the anti-thrust caps on each of the bottle discharge ports.

SUBTASK 26-23-01-420-050

- (6) Install the protective caps on each of the discharge tubes.

EFFECTIVITY
AKS ALL

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SUBTASK 26-23-01-020-003-001

- (7) Remove the bolts [2] and the washers [3] securing the bottle to the support bracket.

SUBTASK 26-23-01-020-004-001

- (8) Use the service handles to remove the bottle.

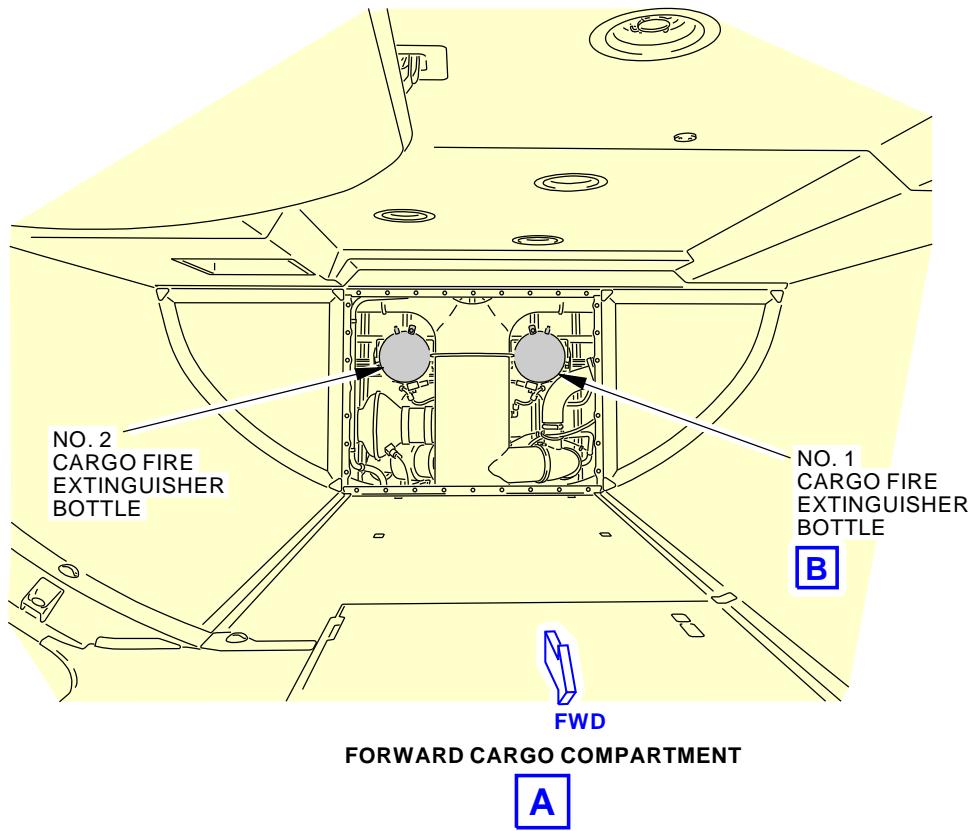
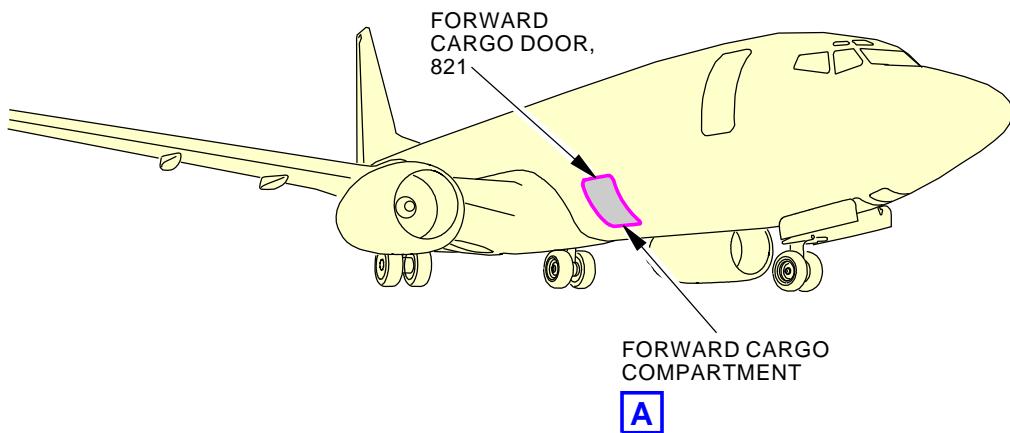
———— END OF TASK ————

EFFECTIVITY
AKS ALL

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H77705 S0006568329_V2

Cargo Compartment Fire Extinguisher Bottle Installation
Figure 401/26-23-01-990-801 (Sheet 1 of 4)

EFFECTIVITY
AKS ALL

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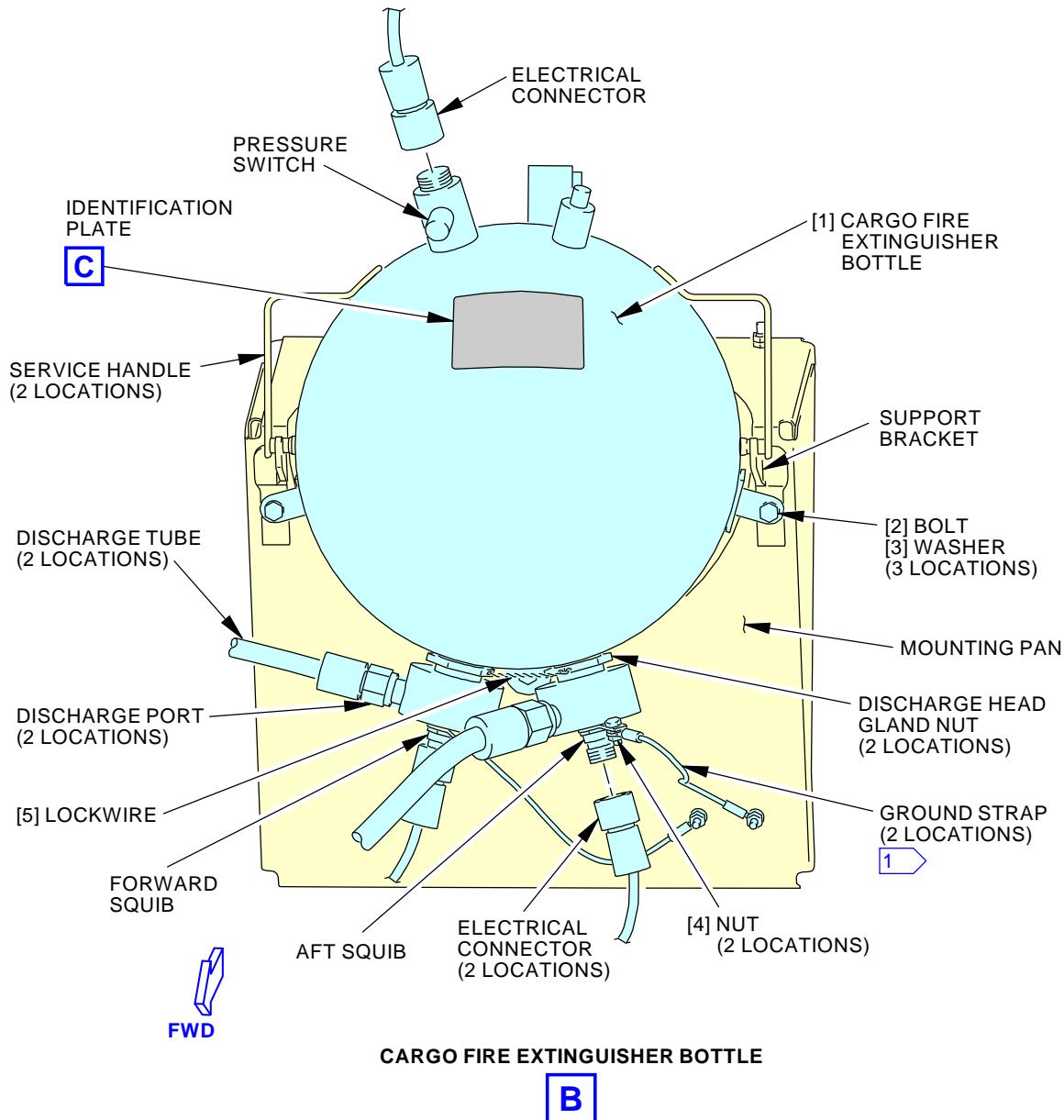
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1 BOTTLES WITHOUT SEPARATE GROUND STRAP FITTING

H01818 S0006568332_V4

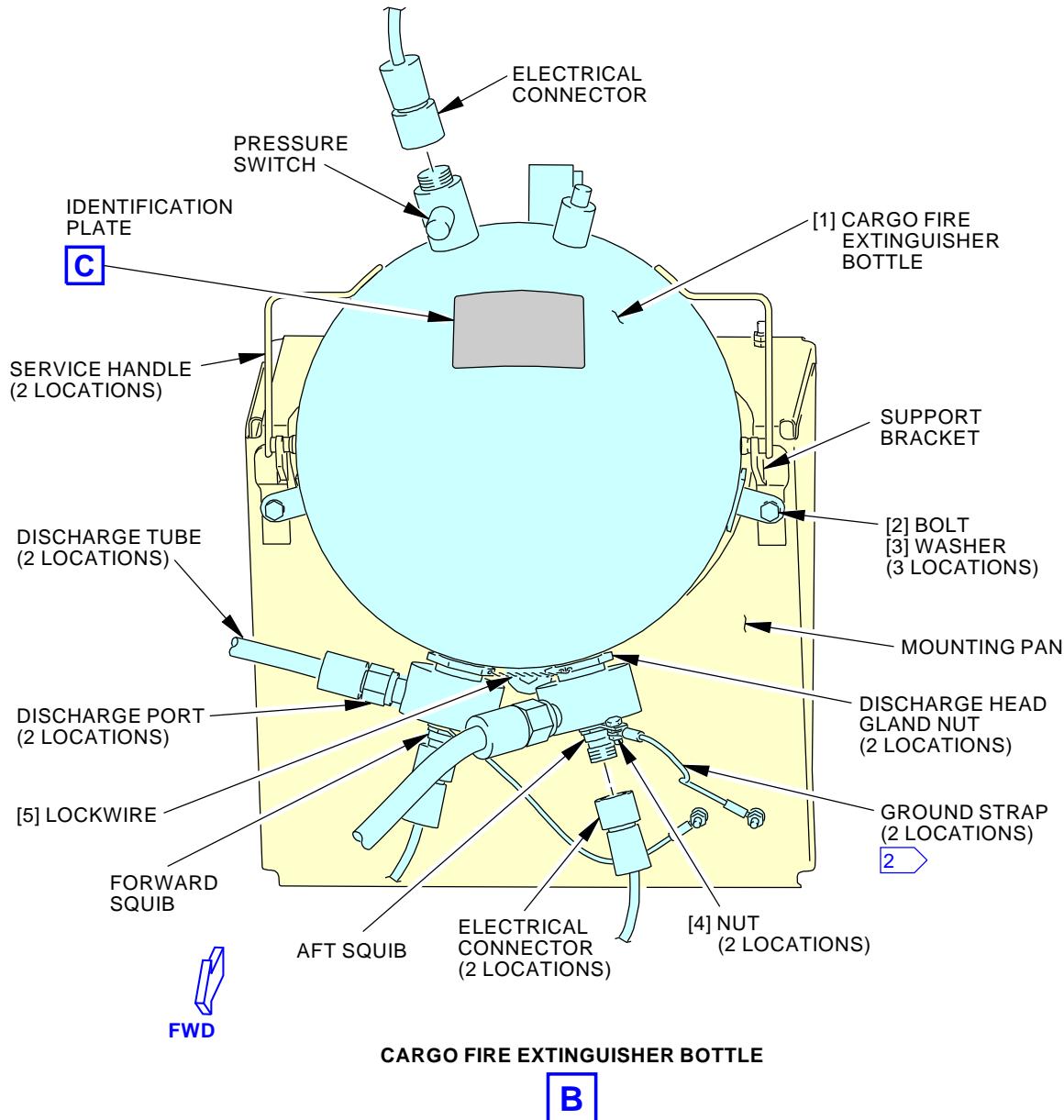
Cargo Compartment Fire Extinguisher Bottle Installation
Figure 401/26-23-01-990-801 (Sheet 2 of 4)

EFFECTIVITY
AKS ALL

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2 BOTTLES WITH SEPARATE GROUND STRAP FITTING

N89563 S0006568334_V4

Cargo Compartment Fire Extinguisher Bottle Installation
Figure 401/26-23-01-990-801 (Sheet 3 of 4)

EFFECTIVITY
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CONTAINER: FIRE EXTINGUISHING			
KA NO		KA SERNO	
SPEC CONTROL NO.			
WT (LESS DISCH HD/CART)			
EMPTY WT (ACTL)	LB	WT EA DISCH HD (NOW)	LB
CBrF ₃ WT (NOW)	LB	WT EA CART (NOW)	LB
N ₂ WT (NOW)	LB	MFG DATE	
TOTAL WT (ACTL)	LB	LAST WT INSP DATE	

IDENTIFICATION PLATE 324269

C

CONTAINER: FIRE EXTINGUISHING		
AGENT: CBrF ₃		
LAST HYDRO TEST DATE		WK NO
DATE OF MFG	WK SERIAL NO	
GROSS WT EMPTY	TOTAL WT ACTUAL	LAST WT INSPECTION
LB	LB	
WEIGHT OF CHARGE (NOMINAL)		
AGENT	LB	NITROGEN LB

IDENTIFICATION PLATE 324483

C

434289 S0000141004_V2

Cargo Compartment Fire Extinguisher Bottle Installation
Figure 401/26-23-01-990-801 (Sheet 4 of 4)

EFFECTIVITY
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TASK 26-23-01-400-802-001

3. Cargo Fire Extinguisher Bottle Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to install the Cargo Fire Extinguisher Bottle.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
26-23-01-100-801	Cargo Fire Extinguishing System Cleaning (P/B 701)
26-23-02-400-801	Cargo Fire Extinguisher Bottle Squib Installation (P/B 401)
26-23-04-000-801	Cargo Fire Extinguishing Filter/Dryer Removal (P/B 401)
26-23-04-400-801	Cargo Fire Extinguishing Filter/Dryer Installation (P/B 401)
SWPM 20-20-00	Electrical Bonding Processes

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meters - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536



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(Continued)

Reference	Description
COM-4907	Force Gauge With Resolution of 0.10 lb, +/-0.3% or better Part #: FDIX 100 Supplier: 0BFD9 Part #: FDIX 50 Supplier: 0BFD9 Part #: LG-5KG Supplier: 92456 Part #: PS-10 Supplier: 1GHM7 Opt Part #: FDI 100 Supplier: 0BFD9 Opt Part #: FDI 50 Supplier: 0BFD9 Opt Part #: FDV 100 Supplier: 0BFD9 Opt Part #: FDV 50 Supplier: 0BFD9
STD-1079	Resistor - 10K Ohm or Greater

D. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
D50004	Compound - Antiseize	BMS3-28
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G01048	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G50136	Compound - Corrosion Inhibiting, Non-drying	BMS3-38
G50237	Compound - Corrosion Inhibiting, Non-drying - Cor-Ban 27L	BMS3-38, NSN 6850-01-469-7645

E. Location Zones

Zone	Area
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right

F. Access Panels

Number	Name/Location
821	Forward Cargo Door

G. Prepare for the Installation

SUBTASK 26-23-01-860-017-001

- (1) Make sure that these circuit breakers are open and have safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

SUBTASK 26-23-01-010-021

- (2) Open this access door:

Number Name/Location

821	Forward Cargo Door
-----	--------------------

SUBTASK 26-23-01-860-007-001

- (3) Remove the lining at the aft end of the forward cargo compartment to get access to the air conditioning distribution bay.



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SUBTASK 26-23-01-860-036-001

- (4) If it is necessary, remove the air conditioning duct that is in front of the fire extinguisher bottle.

H. Cargo Fire Extinguisher Bottle Installation

SUBTASK 26-23-01-200-001-001

- (1) If the previous bottle was discharged, do this task: Cargo Fire Extinguishing System Cleaning, TASK 26-23-01-100-801.

SUBTASK 26-23-01-420-027-001

- (2) If either fire bottle 1 or 2 was discharged, remove the filter/dryer in that discharge line and replace it with a new filter/dryer.

NOTE: For example, if either fire bottle 1 or 2 was discharged into the aft cargo compartment, the filter/dryer on the aft discharge line would have to be replaced. The filter/dryer on the forward discharge line would not have to be replaced.

These are the tasks:

- Cargo Fire Extinguishing Filter/Dryer Removal, TASK 26-23-04-000-801.
- Cargo Fire Extinguishing Filter/Dryer Installation, TASK 26-23-04-400-801.

SUBTASK 26-23-01-420-001-001

- (3) Put the bottle in position in the airplane.

WARNING: DO NOT TOUCH THE PINS ON THE SQUIB. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

WARNING: DO NOT MOVE THE BOTTLE WITHOUT A CAP ON THE PORTS. DO NOT LET THE BOTTLE HIT THE AIRPLANE. BE CAREFUL NOT TO DAMAGE THE BOTTLE. IF THE BOTTLE IS ACCIDENTLY DISCHARGED, IT CAN CAUSE INJURY TO PERSONS.

- (a) Before you install the fire extinguishing bottle, weigh the bottle in accordance with the manufacturers instructions and make sure its weight loss is not more than the weight shown in Table 401 (see also Figure 401 (Sheet 4)).

NOTE: Depending on the bottle manufacturer and/or bottle part number, the measured weight marked on the bottle may or may not include some of the protective caps.

Table 401/26-23-01-993-801

Bottle Part Number	Weight Tolerance
473957-X	0.25 lb (0.11 kg)
34600010-XX	0.10 lb (0.05 kg)
474103-X	0.063 lb (0.029 kg)

- 1) Use force gauge, COM-4907 to weigh the bottle.

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- (b) Leave the fill/safety protective cap on the bottle.

AKS ALL

- (c) Lift the cargo fire extinguisher bottle [1] by the service handles and install the bottle mounting lugs on the support bracket.

SUBTASK 26-23-01-420-002-001

- (4) Install the bolts [2] and washers [3] that attach the bottle in the airplane.

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SUBTASK 26-23-01-420-006-001

- (5) Install nut [4] to attach the ground strap to the bottle and the mounting pan.

SUBTASK 26-23-01-420-038

- (6) Measure the resistance between the cargo fire extinguisher bottle [1] and the mounting pan with an intrinsically safe approved bonding meter, COM-1550.
 - (a) Make sure the resistance is not more than 0.001 ohm.
 - (b) If the resistance is more than 0.001 ohm, clean the bonding surfaces between the fire extinguishing bottle and the ground straps and retest (SWPM 20-20-00).
 - 1) Use a cotton wiper, G00034, made moist with alcohol, B00130.
 - 2) Immediately dry the surfaces with a new cotton wiper.

SUBTASK 26-23-01-020-005-001

- (7) If the discharge heads are not aligned with the discharge tubes, do this step:
 - (a) Loosen the discharge head gland nuts and adjust the discharge heads to give the best possible access to the tube connections.

SUBTASK 26-23-01-020-021

- (8) Remove the protective caps from each of the discharge tubes.

SUBTASK 26-23-01-080-001-001

- (9) Remove the anti-thrust caps from each of the discharge ports.

SUBTASK 26-23-01-420-048

- (10) Use a lockwire to hang the anti-thrust caps on the discharge tubes.

SUBTASK 26-23-01-620-002

WARNING: DO NOT GET THE CORROSION-INHIBITING COMPOUND ON YOUR SKIN, IN YOUR EYES, OR ON YOUR CLOTHES. THE COMPOUND IS POISONOUS AND FLAMMABLE. USE APPROVED GLOVES, AND EYE PROTECTION. MAKE SURE THAT THERE IS GOOD AIRFLOW IN THE WORK AREA. KEEP THE COMPOUND AWAY FROM SPARKS AND FLAMES. THE COMPOUND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (11) Apply a layer of compound, D50004 (recommended), to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.
 - (a) Permitted alternative anti-corrosion compounds to use in this location are Cor-Ban 27L Compound, G50237, or corrosion inhibiting compound, G50136.

SUBTASK 26-23-01-420-003-001

- (12) Connect the FWD (Yellow) and AFT (Blue) discharge tubes to the discharge ports.
 - (a) Refer to the outlet identification above each discharge outlet to make sure the tubes are connected to the correct ports.

SUBTASK 26-23-01-420-004-001

- (13) If the gland nut was adjusted, do these steps:
 - (a) Tighten the gland nuts to 660-780 inch-pounds (74-88 N·m).
 - (b) Tighten the gland nut on bottle 1 and 2 to 660-780 inch-pounds (74-88 N·m).
 - (c) Attach a MS20995C32 lockwire, G01048, from between the gland nuts.

SUBTASK 26-23-01-420-005-001

- (14) Tighten the nuts on the tube assemblies to these torque values:

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Discharge Tube Torque Values

Nut Size	Tube Outer Diameter	Torque (MIN)	Torque (MAX)
7/8 in	1/2 in	266 in-lb (30 N·m)	294 in-lb (33 N·m)
1 in	5/8 in	342 in-lb (39 N·m)	378 in-lb (43 N·m)

AKS ALL; AIRPLANES WITH FIRE BOTTLES WITHOUT MANUAL OVERRIDE ON THE PRESSURE SWITCH

SUBTASK 26-23-01-420-007-001

- (15) Install the electrical connector to the pressure switch.
 - (a) Connect a jumper wire between pins 2 and 3 on D12792.
 - 1) Make sure the DISCH light on the cargo fire control panel, P8, comes on.
 - 2) Remove the jumper wire.

AKS ALL

- (b) Connect a jumper wire between pins 2 and 3 on D12816.
 - 1) Make sure the DISCH light on the Cargo Fire Control Panel comes on.
 - 2) Remove the jumper wire.

AKS ALL; AIRPLANES WITH FIRE BOTTLES WITHOUT MANUAL OVERRIDE ON THE PRESSURE SWITCH

- (c) Install the electrical connector to the pressure switch, D12792 on bottle 1.

AKS ALL

- (d) Install the electrical connector to the pressure switch, D12816 on bottle 2.

AKS ALL; AIRPLANES WITH FIRE BOTTLES WITH MANUAL OVERRIDE ON THE PRESSURE SWITCH

SUBTASK 26-23-01-710-001-001

- (16) Do a test of the fire extinguisher pressure switch.
 - (a) Push and hold the pressure switch manual-override button on the fire extinguisher bottle.
 - (b) Make sure the yellow DISCH light on the cargo fire control panel, P8, comes on.
 - (c) Release the pressure switch manual-override button on the fire extinguisher bottle.
 - (d) Make sure the DISCH light on the cargo fire control panel, P8, goes off.

AKS ALL

I. Connect the Bottle Squib Connectors

SUBTASK 26-23-01-420-008-001

- (1) If the squib is not installed on the fire extinguisher bottle, do this task: Cargo Fire Extinguisher Bottle Squib Installation, TASK 26-23-02-400-801.

SUBTASK 26-23-01-420-009-001

- (2) Do this to install the electrical connector and test the FWD squib:

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WARNING: DO NOT TOUCH THE SQUIB BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (a) Before you touch the squib, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:
 - ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
 - ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.
- (b) Remove the protective cap from the forward squib.
- (c) Attach the protective cap to the side of the fire extinguisher for later use.

SUBTASK 26-23-01-700-001

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (3) Do this to make sure that there is no stray voltage at the electrical squib connector:

Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

- (a) Connect the digital/analog multimeter, COM-1793, across the two pins.
- (b) Make sure that the current is less than 5 mA.
- (c) Connect a resistor, STD-1079, across the multimeter probes.
- (d) Make sure that the voltage is less than .250 V.
- (e) If necessary, repeat the steps above for the other squib electrical connectors.
- (f) Disconnect the multimeter.

SUBTASK 26-23-01-420-039

- (4) Make sure the squib pins are not bent or damaged.
- (5) Make sure the electrical connector is not damaged.

NOTE: The squib pins can cause damage to the connector if the pins do not enter the electrical connector receptacles.

- (6) Connect electrical connector D12794 to the forward fire bottle squib on bottle 1.
- (7) Connect electrical connector D12818 to the forward fire bottle squib on bottle 2.

SUBTASK 26-23-01-860-054

- (8) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

SUBTASK 26-23-01-700-002

- (9) Push and hold the TEST switch on the cargo fire control panel.



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- (a) Make sure the green FWD EXT light on the cargo fire control panel comes on.
- (b) Make sure the green AFT EXT light stays off.
- (10) Release the TEST switch.
 - (a) Make sure the green FWD EXT light goes off.

SUBTASK 26-23-01-860-018-001

- (11) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

SUBTASK 26-23-01-420-010-001

- (12) Do this to install the electrical connector and test the AFT squib.
 - (a) Remove the protective cap from the aft squib.
 - (b) Attach the protective cap to the side of the fire extinguisher for later use.

SUBTASK 26-23-01-700-003

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (13) Do this to make sure that there is no stray voltage at the electrical squib connector:

Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

- (a) Connect the digital/analog multimeter, COM-1793, across the two pins.
- (b) Make sure that the current is less than 5 mA.
- (c) Connect a resistor, STD-1079, across the multimeter probes.
- (d) Make sure that the voltage is less than .250 V.
- (e) If necessary, repeat the steps above for the other squib electrical connectors.
- (f) Disconnect the multimeter.

SUBTASK 26-23-01-420-040

- (14) Make sure the squib pins are not bent or damaged.
- (15) Make sure the electrical connector is not damaged.

NOTE: The squib pins can cause damage to the connector if the pins do not enter the electrical connector receptacles.

- (16) Connect electrical connector D12796 to the aft fire bottle squib on bottle 1.
- (17) Connect electrical connector D12820 to the aft fire bottle squib on bottle 2.

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SUBTASK 26-23-01-860-055

- (18) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

SUBTASK 26-23-01-700-004

- (19) Push and hold the TEST switch on the cargo fire control panel.
(a) Make sure the green FWD and AFT EXT lights on the cargo fire control panel come on.
- (20) Release the TEST switch.
(a) Make sure the green FWD and AFT EXT lights go off.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 26-23-01-410-001-001

- (1) If it was removed, install the air conditioning duct in front of the fire extinguishing bottle.

SUBTASK 26-23-01-410-002-001

- (2) Install the liner at the aft end of the forward cargo compartment.

SUBTASK 26-23-01-410-003-001

- (3) Close this access door:

<u>Number</u>	<u>Name/Location</u>
821	Forward Cargo Door

———— END OF TASK ————



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AIRCRAFT MAINTENANCE MANUAL

CARGO COMPARTMENT FIRE EXTINGUISHING SYSTEM - CLEANING/PAINTING

1. General

- A. The cargo fire extinguishing system should be cleaned whenever the cargo compartment fire bottle is discharged.
- B. Only the compartment in which the bottle was discharged requires cleaning.
- C. This procedure has tasks to clean the cargo fire extinguishing system.

TASK 26-23-01-100-801

2. Cargo Fire Extinguishing System Cleaning

A. Tools/Equipment

Reference	Description
STD-1325	Source - Pressure, Capable of Supplying 35 +/- 5 PSIG

B. Consumable Materials

Reference	Description	Specification
D50004	Compound - Antiseize	BMS3-28
G01048	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G50136	Compound - Corrosion Inhibiting, Non-drying	BMS3-38
G50237	Compound - Corrosion Inhibiting, Non-drying - Cor-Ban 27L	BMS3-38, NSN 6850-01-469-7645

C. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

D. Access Panels

Number	Name/Location
821	Forward Cargo Door
822	Aft Cargo Door

E. Prepare for Cleaning

SUBTASK 26-23-01-860-011

- (1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

EFFECTIVITY
AKS ALL

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SUBTASK 26-23-01-010-003

- (2) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
821	Forward Cargo Door

SUBTASK 26-23-01-010-004

- (3) To access the discharge nozzles in the aft cargo bay, open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 26-23-01-860-012

- (4) Remove the lining at the aft end of the forward cargo compartment to get access to the air conditioning distribution bay.

SUBTASK 26-23-01-860-013

- (5) If it is necessary, remove the air conditioning duct that is in front of the fire extinguishing bottle.

SUBTASK 26-23-01-020-006

- (6) Disconnect the applicable discharge tube from the fire extinguisher bottle discharge head.

SUBTASK 26-23-01-020-007

- (7) Remove the discharge nozzles from the discharge tubes in the applicable cargo bay.
- (a) Remove the four screws [6] securing the retainer [5] to the bracket.
 - (b) Remove the cargo ceiling as required to gain access to the nut.
 - (c) Remove the two screws [4] securing the discharge nozzle [3] to the pan cover assembly [7].
 - (d) Remove the discharge nozzle [3].

F. Procedure

SUBTASK 26-23-01-100-001

- (1) Make sure the nozzle is clear of unwanted materials.

SUBTASK 26-23-01-480-002

- (2) Connect a pressure source, STD-1325 to the applicable cargo bottle discharge tube.
(a) Make sure air is flowing through all the discharge tubes in the cargo compartment.

SUBTASK 26-23-01-080-002

- (3) Remove the pressure source from the discharge tube.

G. Put the airplane back to its usual condition.

SUBTASK 26-23-01-420-011

- (1) Connect the discharge tube to the discharge outlet on the bottle.

WARNING: DO NOT GET THE CORROSION-INHIBITING COMPOUND ON YOUR SKIN, IN YOUR EYES, OR ON YOUR CLOTHES. THE COMPOUND IS POISONOUS AND FLAMMABLE. USE APPROVED GLOVES, AND EYE PROTECTION. MAKE SURE THAT THERE IS GOOD AIRFLOW IN THE WORK AREA. KEEP THE COMPOUND AWAY FROM SPARKS AND FLAMES. THE COMPOUND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (a) Apply a layer of compound, D50004 (preferred) to the outlet threads, outlet end, and outlet inner diameter where the tube assembly attaches to the discharge head.



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- 1) Cor-Ban 27L Compound, G50237 or corrosion inhibiting compound, G50136 are also acceptable alternatives as anti-corrosion compounds to use in this location.
- (b) Connect the tube assembly to the discharge head.
NOTE: Yellow is used to show the plumbing which supplies extinguishant to cargo compartment number 1. Blue is used to show the plumbing which supplies extinguishant to cargo compartment number 2.
- (c) Remove any unwanted compound.
- (d) Tighten the nut on the applicable tube assembly 266 in-lb (30 N·m) to 294 in-lb (33 N·m) for the FWD (1/2 inch) nut or 342 in-lb (39 N·m) to 378 in-lb (43 N·m) for the AFT (5/8 inch) nut.

SUBTASK 26-23-01-860-014

- (2) Install the air conditioning duct that is in front of the fire extinguishing bottle if it was previously removed.

SUBTASK 26-23-01-860-015

- (3) Install the lining at the aft end of the forward cargo compartment.

SUBTASK 26-23-01-420-012

- (4) Install the discharge nozzles on the discharge tubes.
 - (a) Install the discharge nozzle [3], spacer [2], and pan cover assembly [7] on the discharge tube and hand tighten.
NOTE: Make sure the pan cover line up with those in the bracket. Make sure the holes in the discharge nozzle [3] and spacer [2] line up with those in the pan cover assembly.
 - (b) Tighten the nut 45 ft-lb (61 N·m) to 55 ft-lb (75 N·m), and install MS20995C32 lockwire, G01048.
 - (c) Secure the discharge nozzle [3] with screws [4].
 - (d) Install the cargo ceiling.
 - (e) Position the spacer [1] and retainer [5], and secure with screws [6].

SUBTASK 26-23-01-860-041

- (5) Remove the safety tags and close these circuit breakers:

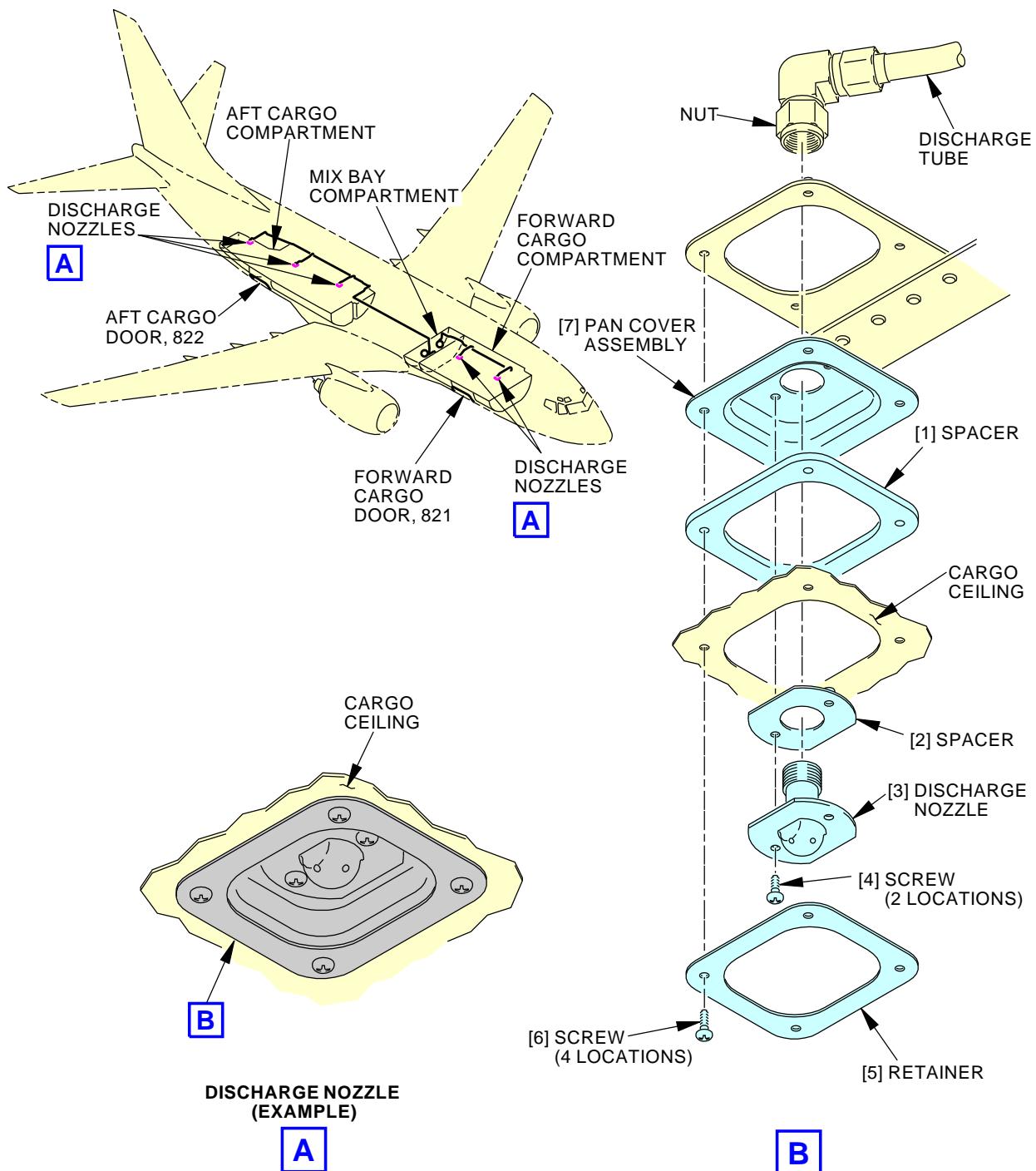
CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

———— END OF TASK ————

EFFECTIVITY	AKS ALL
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26-23-01



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Cargo Bay Fire Extinguishing System Discharge Nozzle Cleaning
Figure 701/26-23-01-990-803

EFFECTIVITY
 AKS ALL

26-23-01



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CARGO COMPARTMENT FIRE EXTINGUISHER BOTTLE SQUIB - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. The cargo fire extinguisher bottles are installed in the mix manifold bay, in the aft end of the lower fwd cargo compartment. Each fire extinguisher bottle has two discharge cartridges (squibs).
- C. This procedure has tasks to remove and install the cargo fire extinguisher bottle squibs.

TASK 26-23-02-000-801

2. Cargo Fire Extinguisher Bottle Squib Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to remove the Cargo Fire Extinguisher Bottle Squib.

B. References

Reference	Title
20-10-33-000-801	Power Device Cartridge (Squib) Removal (P/B 401)
24-22-00-860-811	Supply Electrical Power (P/B 201)

C. Consumable Materials

Reference	Description	Specification
G01048	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8128 mm) Diameter	NASM20995

D. Location Zones

Zone	Area
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right

E. Access Panels

Number	Name/Location
821	Forward Cargo Door

F. Prepare for the Removal

SUBTASK 26-23-02-860-001

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 26-23-02-860-002

- (2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

SUBTASK 26-23-02-010-012

- (3) Open this access door:

Number Name/Location

821 Forward Cargo Door

EFFECTIVITY
AKS ALL

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SUBTASK 26-23-02-010-002

- (4) Remove the lining at the aft end of the forward cargo compartment to get access to the air conditioning distribution bay.

SUBTASK 26-23-02-860-003

- (5) If it is necessary, remove the air conditioning duct that is in front of the fire extinguishing bottle.

G. Cargo Fire Extinguisher Bottle Squib Removal

SUBTASK 26-23-02-860-018

- (1) Before you touch the squibs, do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-10-33-000-801).

SUBTASK 26-23-02-020-001

WARNING: DO NOT TOUCH THE PINS ON THE SQUIBS. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (2) Disconnect the electrical connectors from the applicable squib.
 - (a) FWD Squib (M2249) connector, D12794.
 - (b) FWD Squib (M2264) connector, D12818.
 - (c) AFT Squib (M2250) connector, D12796.
 - (d) AFT Squib (M2265) connector, D12820.

SUBTASK 26-23-02-480-001

WARNING: PUT A PROTECTIVE CAP ON THE FIRE BOTTLE SQUIB. IF YOU DO NOT PUT A PROTECTIVE CAP ON THE FIRE BOTTLE SQUIB, THE FIRE BOTTLE CAN RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS.

- (3) Put a protective cap on the squib.

SUBTASK 26-23-02-020-002

- (4) Remove the MS20995C32 lockwire, G01048, from the squib if present.

SUBTASK 26-23-02-020-003

- (5) Remove the squib from the discharge head.

———— END OF TASK ————

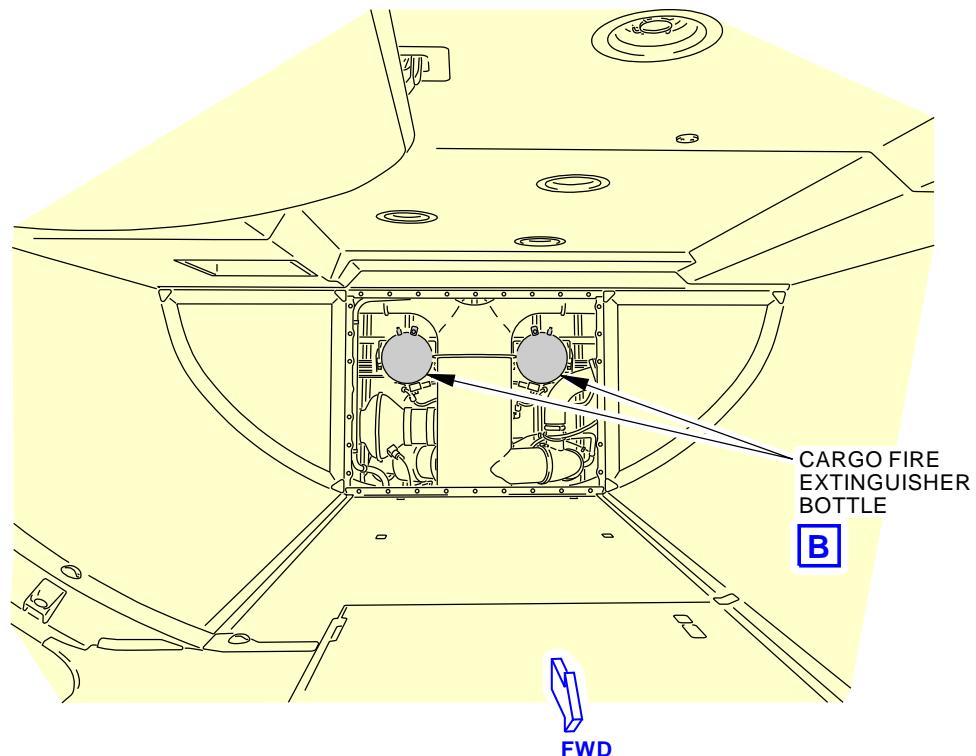
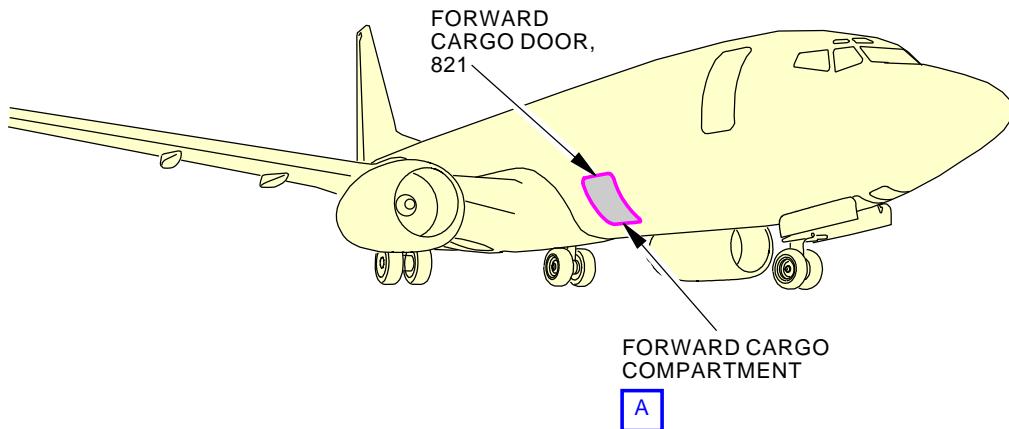
EFFECTIVITY

AKS ALL

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FORWARD CARGO COMPARTMENT

A

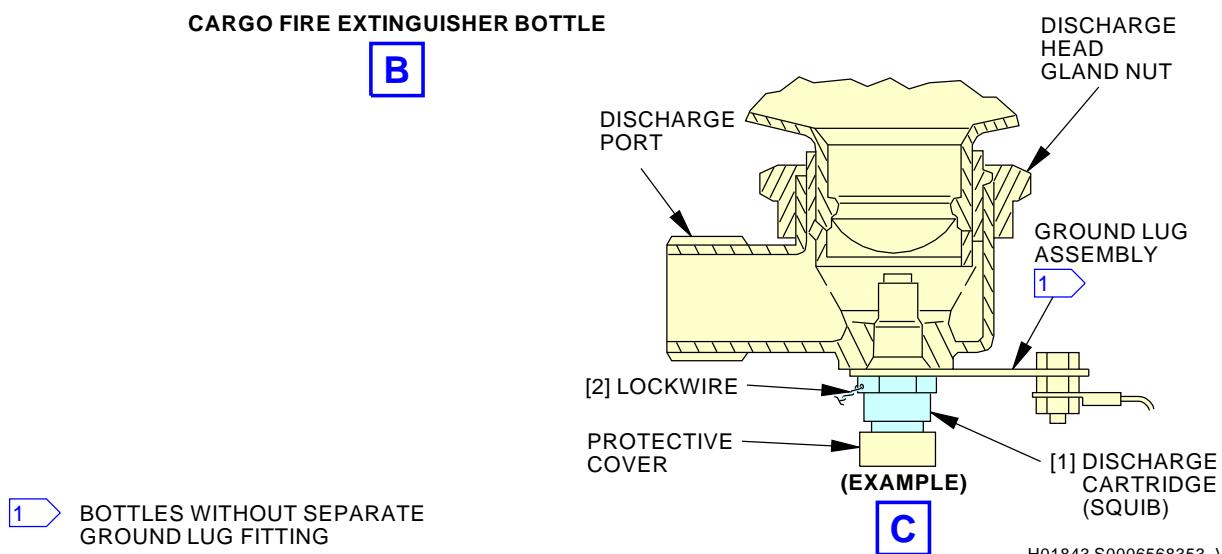
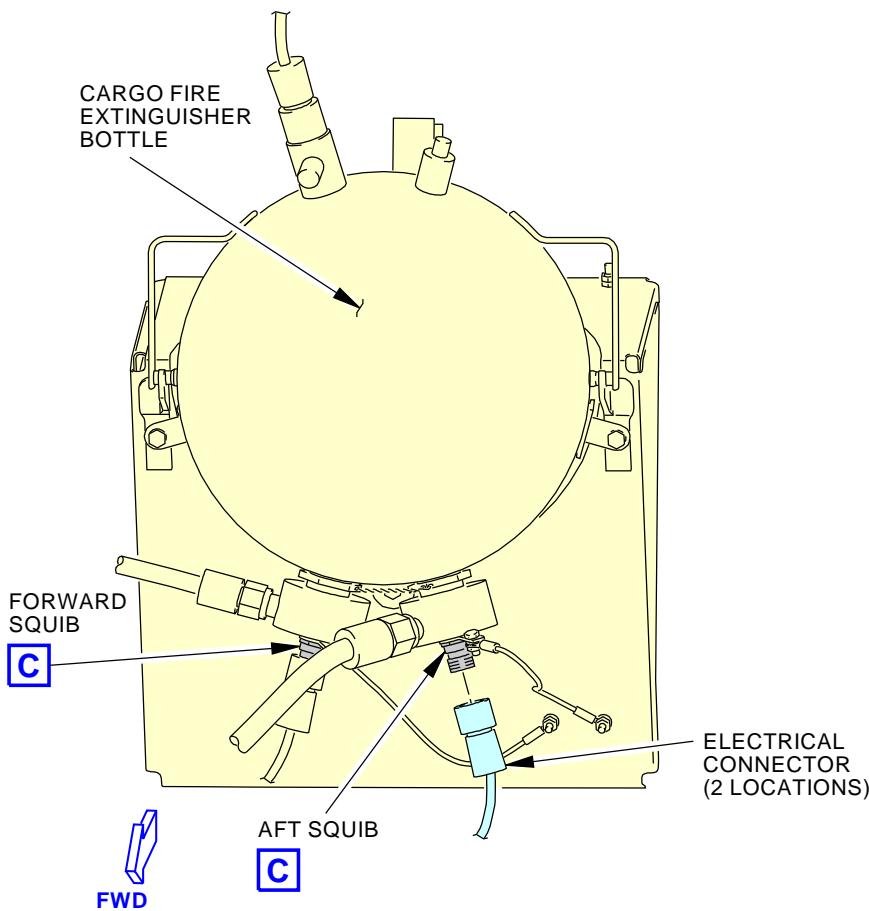
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Cargo Compartment Fire Extinguisher Bottle Squib Installation
Figure 401/26-23-02-990-801 (Sheet 1 of 3)

EFFECTIVITY
AKS ALL

26-23-02

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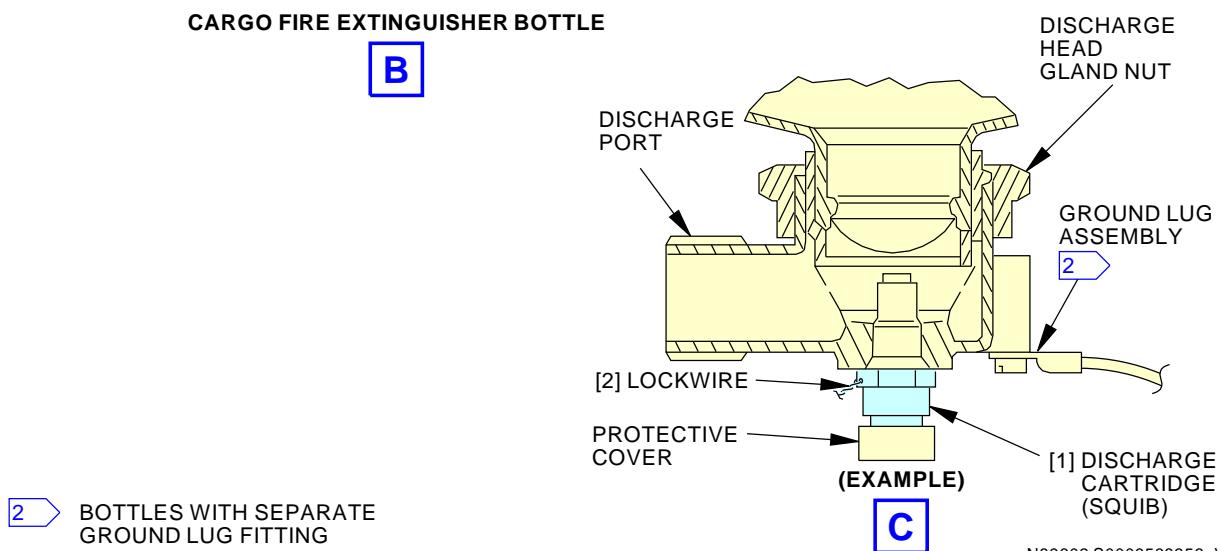
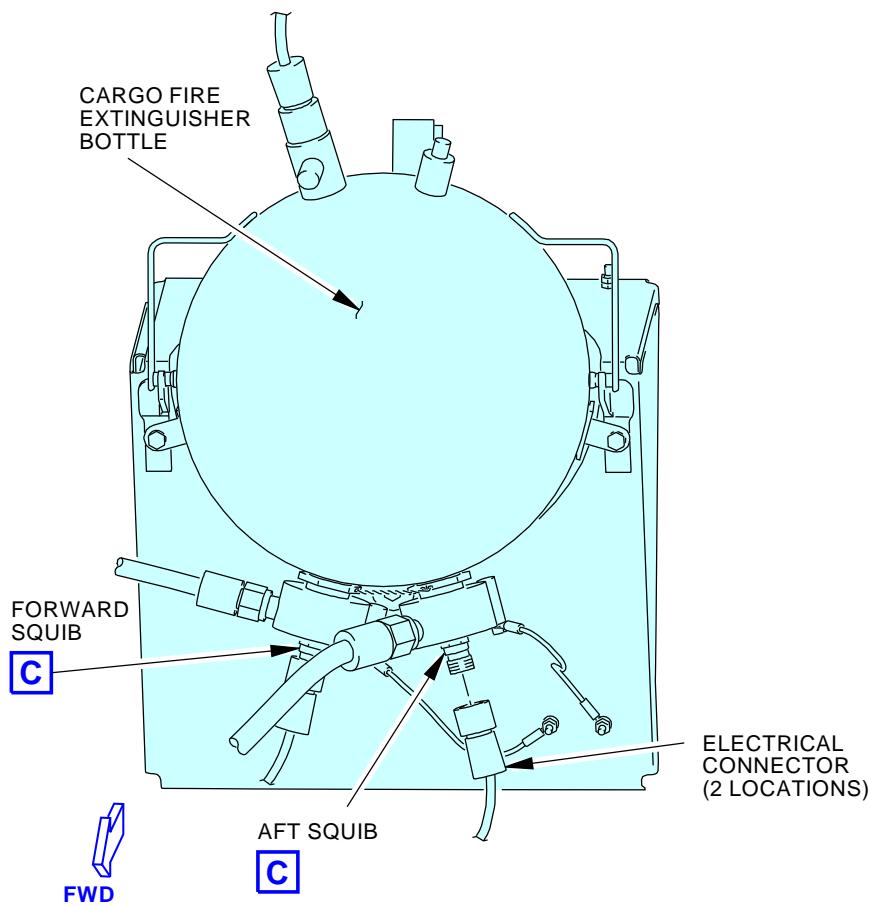
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Cargo Compartment Fire Extinguisher Bottle Squib Installation
Figure 401/26-23-02-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

26-23-02

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Cargo Compartment Fire Extinguisher Bottle Squib Installation
Figure 401/26-23-02-990-801 (Sheet 3 of 3)

EFFECTIVITY	AKS ALL
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26-23-02



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TASK 26-23-02-400-801

3. Cargo Fire Extinguisher Bottle Squib Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to install the Cargo Fire Extinguisher Bottle Squib

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-814	Remove External Power (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 260-8XPI Supplier: 88277 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536
STD-1079	Resistor - 10K Ohm or Greater

D. Location Zones

Zone	Area
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right

E. Access Panels

Number	Name/Location
821	Forward Cargo Door

F. Prepare for the Installation

SUBTASK 26-23-02-860-004

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

EFFECTIVITY
AKS ALL

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SUBTASK 26-23-02-860-005

- (2) Make sure that these circuit breakers are open and have safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

SUBTASK 26-23-02-010-013

- (3) Open this access door:

<u>Number</u>	<u>Name/Location</u>
821	Forward Cargo Door

SUBTASK 26-23-02-010-004

- (4) Remove the lining at the aft end of the forward cargo compartment to get access to the mix manifold bay.

G. Cargo Fire Extinguisher Bottle Squib Installation

SUBTASK 26-23-02-420-001

- (1) Do these steps to install the squib:

WARNING: DO NOT TOUCH THE PINS ON THE SQUIBS. ELECTROSTATIC DISCHARGE CAN CAUSE THE FIRE BOTTLE TO RELEASE ITS CONTENTS SUDDENLY AND CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- Before you touch the squibs, do the procedure for devices that are sensitive to electrostatic discharge. These are the tasks:
 - ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
 - ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.
- Install an o-ring on the squib.
- Install the squib in the discharge head.
- Tighten the squib to 90 in-lb (10 N·m) - 100 in-lb (11 N·m).

SUBTASK 26-23-02-420-003

- (2) Connect aircraft wiring to the squib.
 - Remove the protective cap from the squib.
 - Attach the protective cap to the side of the fire extinguisher for later use.

SUBTASK 26-23-02-700-001

WARNING: MAKE SURE THERE IS NO VOLTAGE AT THE ELECTRICAL CONNECTOR. IF THERE IS A VOLTAGE AT THE ELECTRICAL CONNECTOR, THE SQUIB CAN FIRE SUDDENLY AND CAUSE INJURY TO PERSONNEL.

- (3) Do this to make sure that there is no stray voltage at the electrical squib connector:

Fire Bottle Squib Electrical Connector

	Engine	APU	Cargo
Connector Pins	3 and 4, and 6 and 7	3 and 4	1 and 2

- Connect the digital/analog multimeter, COM-1793, across the two pins.
- Make sure that the current is less than 5 mA.

EFFECTIVITY
AKS ALL

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- (c) Connect a resistor, STD-1079, across the multimeter probes.
- (d) Make sure that the voltage is less than .250 V.
- (e) If necessary, repeat the steps above for the other squib electrical connectors.
- (f) Disconnect the multimeter.

SUBTASK 26-23-02-420-006

- (4) Make sure the squib pins are not bent or damaged.
- (5) Make sure the electrical connector is not damaged.

NOTE: The squib pins can cause damage to the connector if the pins do not enter the electrical connector receptacles.

- (6) Connect the electrical connector to the fire bottle squib.

H. Cargo Fire Extinguisher Bottle Squib Installation Test

SUBTASK 26-23-02-860-007

- (1) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	16	C01528	CARGO FIRE EXT 2
B	17	C01526	CARGO FIRE EXT 1

SUBTASK 26-23-02-710-001

- (2) On the cargo fire control panel, push and hold the TEST switch.
 - (a) Make sure the green FWD and AFT squib test lights on the cargo fire control panel come on.

SUBTASK 26-23-02-710-002

- (3) Release the TEST switch.
 - (a) Make sure the green FWD and AFT squib test lights go off.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 26-23-02-410-001

- (1) If it was removed, install the air conditioning duct in front of the fire extinguishing bottle.

SUBTASK 26-23-02-410-002

- (2) Install the lining at the aft end of the forward cargo compartment.

SUBTASK 26-23-02-410-003

- (3) Close this access door:

<u>Number</u>	<u>Name/Location</u>
821	Forward Cargo Door

SUBTASK 26-23-02-860-008

- (4) Do this task: Remove External Power, TASK 24-22-00-860-814.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

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CARGO FIRE EXTINGUISHING FILTER/DRYER - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Removal of the filter/dryer for the cargo fire extinguishing system
 - (2) Installation of the filter/dryer for the cargo fire extinguishing system
- C. The metering assemblies are used to meter and dry the extinguishant. They are installed in the mix bay. The metering assemblies control the rate of flow of extinguishant to the selected cargo compartment and keeps the concentration of extinguishant constant for 195 minutes.
- D. After the cargo fire extinguishing bottles are discharged, you must replace the fire extinguishing bottles, the squibs, the applicable metering assemblies.

TASK 26-23-04-000-801

2. Cargo Fire Extinguishing Filter/Dryer Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to remove the Cargo Fire Extinguishing Filter/Dryer.

B. References

Reference	Title
25-52-17-000-801	Forward Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Filter/dryer	26-20-51-10-045	AKS ALL
		26-20-51-10-050	AKS ALL

D. Location Zones

Zone	Area
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right

E. Access Panels

Number	Name/Location
821	Forward Cargo Door

F. Prepare for the Removal

SUBTASK 26-23-04-010-007

- (1) Open this access door:

Number	Name/Location
821	Forward Cargo Door

SUBTASK 26-23-04-010-003

- (2) Do this task: Forward Cargo Compartment Aft Bulkhead Liner - Removal,
TASK 25-52-17-000-801.

EFFECTIVITY
AKS ALL

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G. Cargo Fire Extinguishing Filter/dryer Removal

SUBTASK 26-23-04-020-001

- (1) Do these steps to remove the filter/dryer [1]:

WARNING: BE CAREFUL WHEN YOU DISCONNECT THE TUBES FROM THE FILTER/DRYER. IF THE FIRE EXTINGUISHING BOTTLE DISCHARGED, THE TUBING MAY BE PRESSURIZED. WHEN YOU RELEASE THE PRESSURE IN THE TUBING YOU CAN CAUSE INJURY TO PERSONS.

- (a) Disconnect the outlet tube from the filter/dryer [1].

NOTE: Disconnect the outlet tube before you disconnect the inlet tube. If the tubing is pressurized, it is safer to disconnect the outlet tube first.

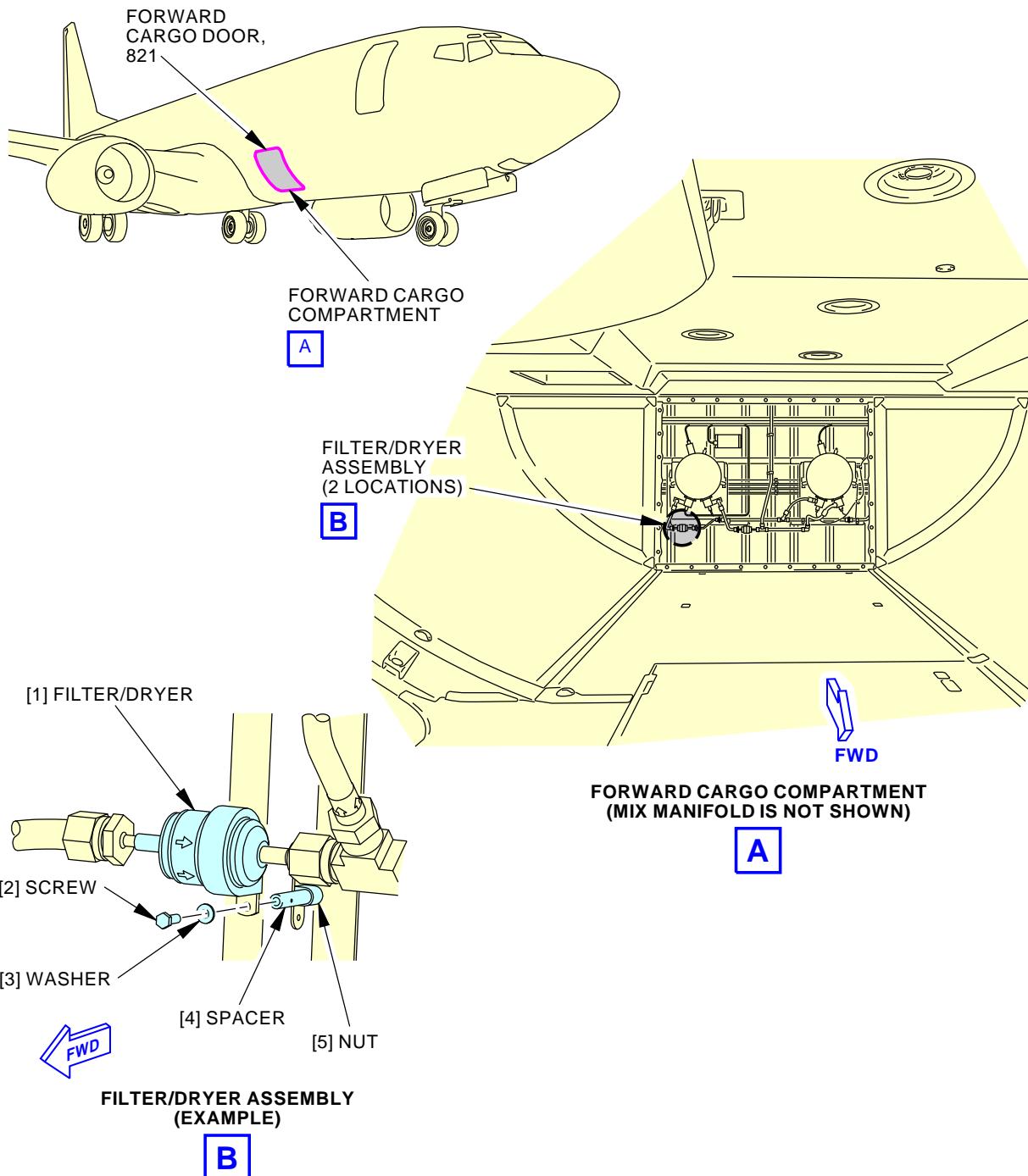
- (b) Disconnect the inlet tube from the filter/dryer [1].

- (c) Remove the screw [2], washer [3], spacer [4] and nut [5] that attach the filter/dryer [1] to the bracket.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-23-04



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Filter/Dryer Assembly Installation
Figure 401/26-23-04-990-801

 EFFECTIVITY
 AKS ALL

26-23-04



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TASK 26-23-04-400-801

3. Cargo Fire Extinguishing Filter/Dryer Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task gives instructions to install the Cargo Fire Extinguishing Filter/Dryer.

B. References

Reference	Title
25-52-17-000-801	Forward Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
25-52-17-400-801	Forward Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Filter/dryer	26-20-51-10-045	AKS ALL
		26-20-51-10-050	AKS ALL

D. Location Zones

Zone	Area
125	Air Conditioning Distribution Bay - Left
126	Air Conditioning Distribution Bay - Right

E. Access Panels

Number	Name/Location
821	Forward Cargo Door

F. Cargo Fire Extinguishing Filter/Dryer Installation

SUBTASK 26-23-04-010-008

- (1) Open this access door:

Number	Name/Location
821	Forward Cargo Door

SUBTASK 26-23-04-010-005

- (2) Do this task: Forward Cargo Compartment Aft Bulkhead Liner - Removal,
TASK 25-52-17-000-801.

SUBTASK 26-23-04-420-001

- (3) Do these steps to install the filter/dryer [1]:

NOTE: Yellow is used to show the plumbing which supplies extinguishant to the forward cargo compartment. Blue is used to show the plumbing which supplies extinguishant to the aft cargo compartment.

- (a) Put the filter/dryer [1] in its position and attach it with the screw [2], washer [3], spacer [4] and nut [5].
- (b) Connect the inlet tube to the filter/dryer [1].
 - 1) Tighten the inlet tube to 265 in-lb (30 N·m) to 290 in-lb (33 N·m).
- (c) Connect the outlet tube to the filter/dryer [1].
 - 1) Tighten the outlet tube to 345 in-lb (39 N·m) to 375 in-lb (42 N·m).

EFFECTIVITY	AKS ALL
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26-23-04



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G. Put the Airplane Back to Its Usual Condition

SUBTASK 26-23-04-410-001

- (1) Do this task: Forward Cargo Compartment Aft Bulkhead Liner - Installation,
TASK 25-52-17-400-801.

SUBTASK 26-23-04-840-001

- (2) Close this access door:

Number Name/Location

821 Forward Cargo Door

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-23-04



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AIRCRAFT MAINTENANCE MANUAL

LAVATORY WASTE COMPARTMENT FIRE EXTINGUISHING - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A removal/installation of the fire extinguishing bottle in the lavatory waste compartment.
 - (2) An inspection/check of the fire extinguishing system in the lavatory waste compartment.
- C. The fire extinguishing system for the lavatory waste compartment operates automatically when heat is detected in the lavatory waste compartment. When the temperature is hot enough, heat fusible tips on the fire extinguisher bottle melt. The extinguisher fills the waste compartment with an inert gas. A separate temperature indicator inside the waste compartment shows when the temperature has gotten hot.

TASK 26-24-01-900-801

2. Lavatory Waste Compartment Fire Extinguishing Bottle Removal/Installation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-6250	Gauge - Force Part #: LG-1KG Supplier: 92456

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Remove the Fire Extinguishing Bottle

SUBTASK 26-24-01-010-001

- (1) Open the waste compartment door.

SUBTASK 26-24-01-010-004

- (2) Open the waste container door to get access to the fire extinguishing bottle [1].

SUBTASK 26-24-01-020-001

- (3) Remove the waste container.

SUBTASK 26-24-01-020-002

- (4) Remove the mounting screws [3] that hold the fire extinguishing bottle [1] in its position.

SUBTASK 26-24-01-020-004

- (5) Hold the fire extinguishing bottle [1] and carefully remove the nozzles through the holes in the seal.

SUBTASK 26-24-01-020-005

- (6) Remove the fire extinguishing bottle [1].

EFFECTIVITY
AKS ALL

26-24-01



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D. Install the Fire Extinguishing Bottle

SUBTASK 26-24-01-280-001

- (1) Use the force gauge, COM-6250 and weigh the fire extinguishing bottle.

NOTE: The total weight of the halon and the bottle is shown on the label of the fire extinguishing bottle. Review table below for allowable weight deviations for fire extinguisher bottle.

- (a) Replace the bottle if the difference between the weight marked on the bottle and the measured weight is more than what is specified in Table 201:

Table 201/26-24-01-993-802

Part Number	Max Permitted Weight Loss (grams)
30100022-X	10
A800100-X	10
A825100-X	10
A826300-X	10
A826700-X	10
474276	10
474453-X	10
800100-X	10
G800100-X	5
G825100-X	5
G826300-X	5
G826700-X	5

SUBTASK 26-24-01-420-001

- (2) Put the fire extinguishing bottle [1] in its position and install the nozzles through the holes in the seal.
(a) Make sure the nozzles point into the waste container area.

SUBTASK 26-24-01-420-002

- (3) Install the mounting screws [3] that hold the fire extinguishing bottle [1] in its position.

SUBTASK 26-24-01-420-004

- (4) Install the waste container in the sink cabinet.

SUBTASK 26-24-01-410-002

- (5) Close the waste container door.

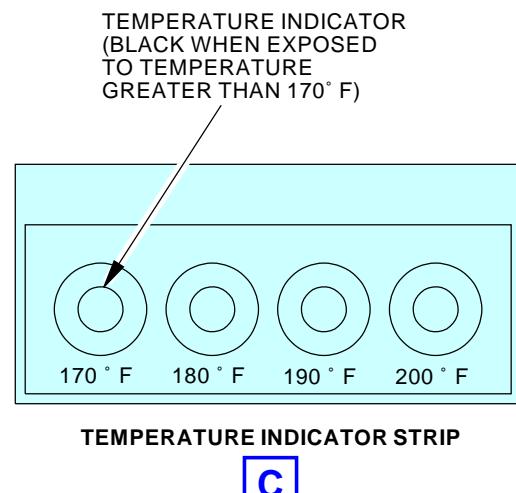
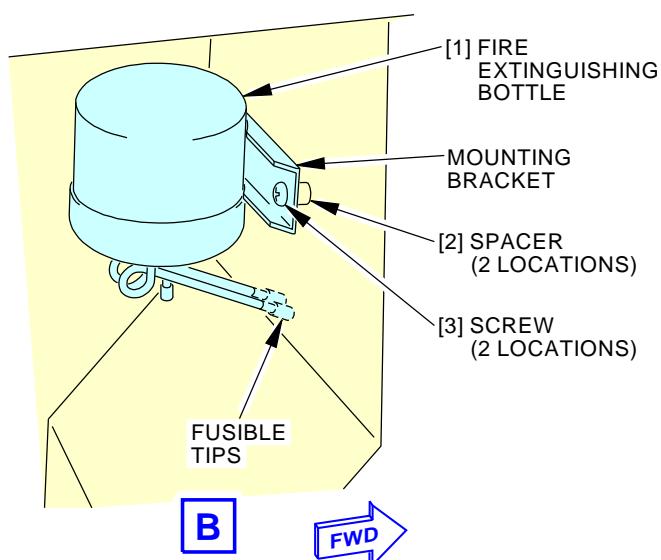
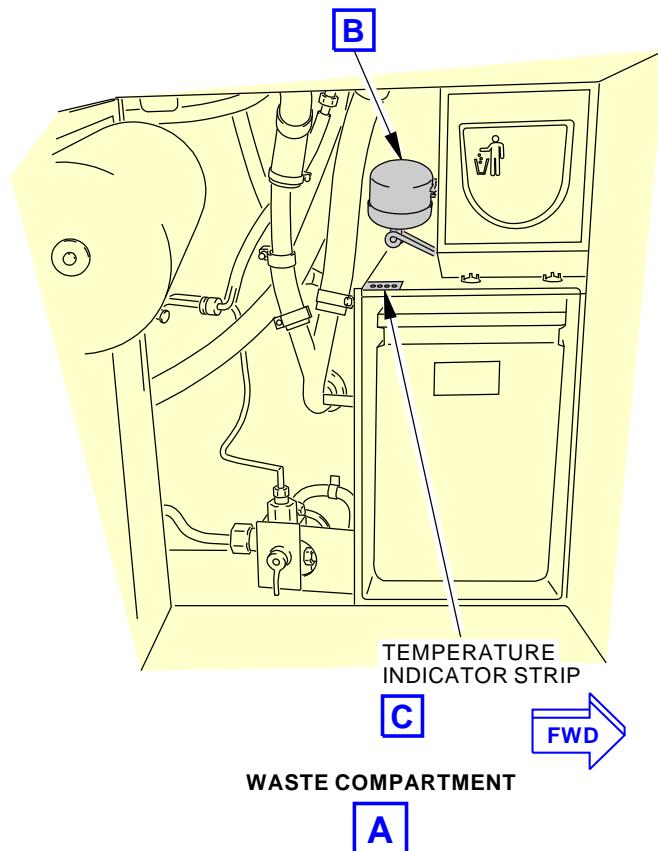
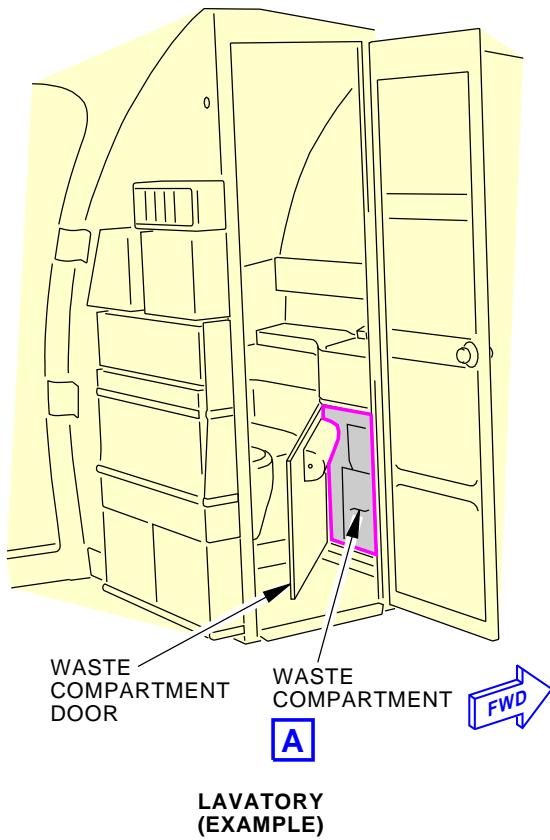
SUBTASK 26-24-01-410-001

- (6) Close the waste compartment door.

— END OF TASK —

EFFECTIVITY
AKS ALL

26-24-01



F83141 S0006568412_V3

Lavatory Waste Compartment Fire Extinguishing - Maintenance Practices

Figure 201/26-24-01-990-801

EFFECTIVITY
AKS ALL

26-24-01



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TASK 26-24-01-200-801

3. Lavatory Waste Compartment Fire Extinguishing Bottle Inspection/Check

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Procedure

SUBTASK 26-24-01-280-002

- (1) Open the waste compartment door.

SUBTASK 26-24-01-280-006

- (2) Open the waste container door to get access to the fire extinguishing bottle on the inside of the waste compartment.

SUBTASK 26-24-01-020-006

- (3) Remove the waste container.

SUBTASK 26-24-01-960-001

- (4) Examine the fusible tips on the discharge tubes.

- (a) Replace the fire extinguishing bottle and the temperature indicator strip if the fusible tips are melted.

NOTE: The temperature indicator strip is located above the waste container.

SUBTASK 26-24-01-960-002

- (5) Examine the temperature indicator strip to see if one or more of the temperature indicators changed from white to black.

- (a) If one or more of the temperature indicator slips changed from white to black, replace the temperature indicator strip.

SUBTASK 26-24-01-280-004

- (6) Examine the fire extinguishing bottle for corrosion, scratches, or dents.

- (a) Replace the fire extinguishing bottle if any dents are deeper than 1/16 in. (2 mm) per 1 in. (25 mm) of average dent diameter or if any scratches are deeper than 0.004 in. (0.102 mm).

SUBTASK 26-24-01-020-008

- (7) Install the waste container in the waste compartment.

SUBTASK 26-24-01-280-007

- (8) Close the waste container door.

SUBTASK 26-24-01-280-005

- (9) Close the waste compartment door.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-24-01



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LAVATORY WASTE COMPARTMENT - INSPECTION/CHECK

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has this inspection task:
 - (1) Lavatory waste compartment.

TASK 26-24-01-210-801

2. Lavatory Waste Compartment Temperature Indicator Strip Inspection

(Figure 601)

A. References

Reference	Title
26-24-01-200-801	Lavatory Waste Compartment Fire Extinguishing Bottle Inspection/Check (P/B 201)

B. Procedure

SUBTASK 26-24-01-010-002

- (1) Open the waste compartment door to get access to the temperature indicator strip.

SUBTASK 26-24-01-210-001

- (2) Examine the temperature indicator strip to see if one or more of the temperature indicators changed from white to black.
 - (a) If one or more of the temperature indicators changed from white to black, do this task: Lavatory Waste Compartment Fire Extinguishing Bottle Inspection/Check, TASK 26-24-01-200-801.

C. Put the Airplane Back to Its Usual Condition

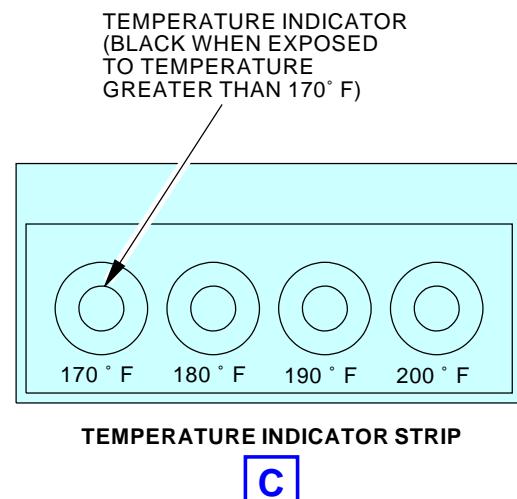
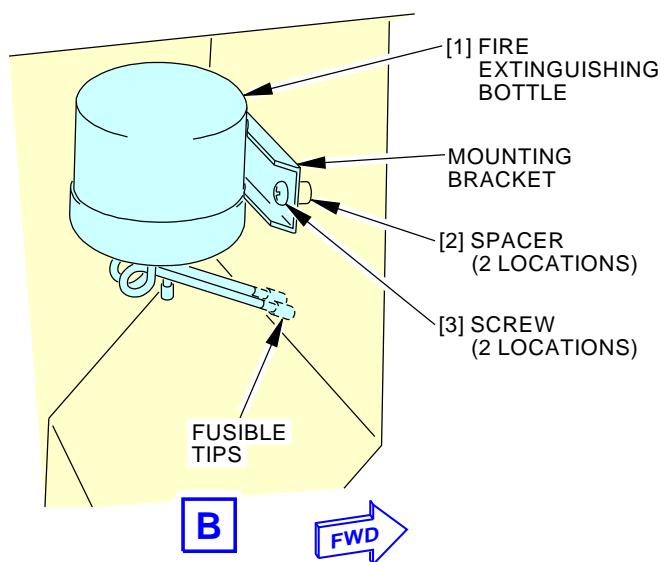
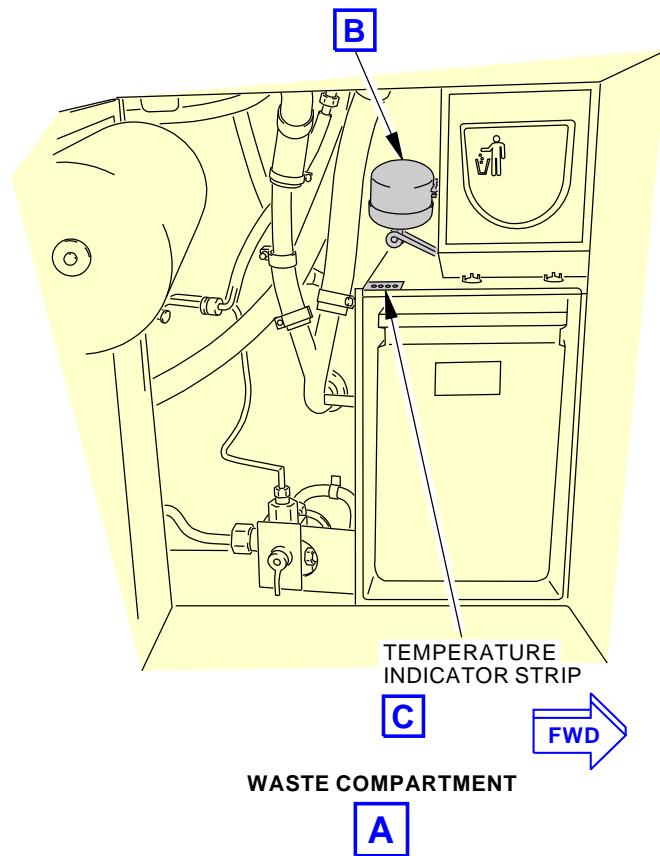
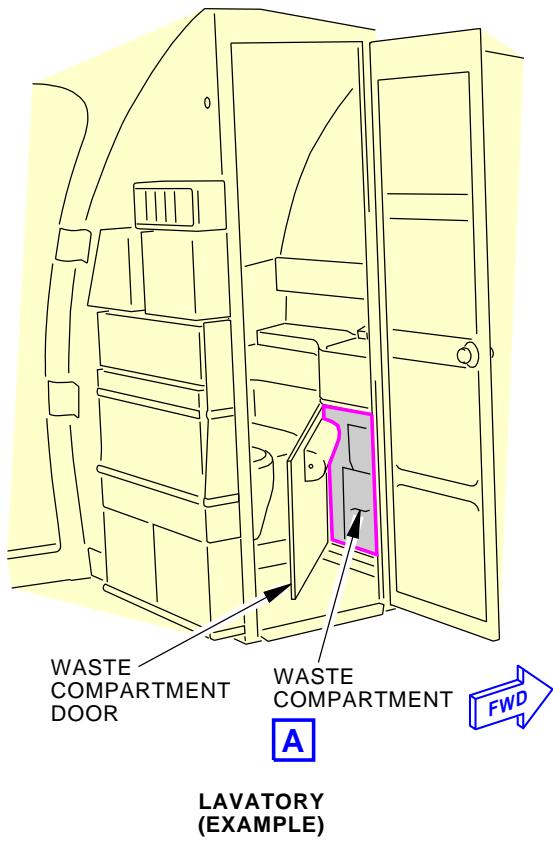
SUBTASK 26-24-01-010-003

- (1) Close the waste compartment door.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-24-01



F83141 S0006568412_V3

Lavatory Waste Compartment Temperature Indicator Strip Inspection

Figure 601/26-24-01-990-802

EFFECTIVITY
AKS ALL

26-24-01



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HALON FIRE EXTINGUISHERS - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. The extinguisher is mounted on a bracket which has a quick-release strap.

TASK 26-26-01-020-801

2. Halon Fire Extinguisher Removal

A. General

- (1) This task gives instructions to remove the Halon Fire Extinguisher.

B. Halon Fire Extinguisher Removal

SUBTASK 26-26-01-030-002

- (1) Unfasten the quick-release strap.

SUBTASK 26-26-01-030-003

- (2) Remove the extinguisher from the bracket.

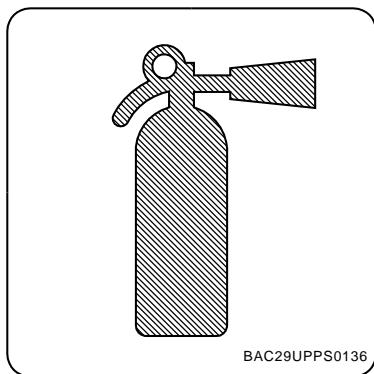
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EFFECTIVITY
AKS ALL

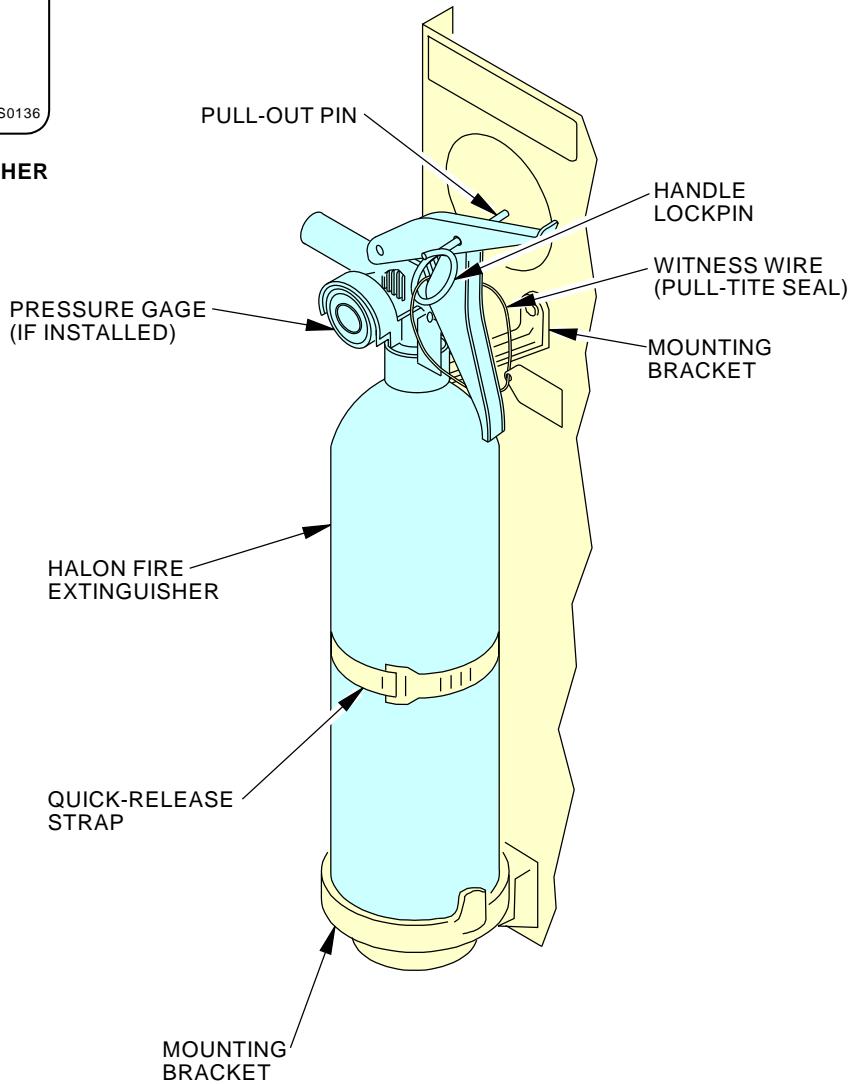
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**PORTABLE FIRE EXTINGUISHER
PLACARD**



**HALON FIRE EXTINGUISHER
(EXAMPLE)**

F27539 S0006568425_V4

Halon Fire Extinguishers Installation
Figure 401/26-26-01-990-802

EFFECTIVITY
AKS ALL

26-26-01

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TASK 26-26-01-430-801

3. Halon Fire Extinguisher Installation

Figure 401

A. General

- (1) This task gives instructions to install the Halon Fire Extinguisher.

B. Halon Fire Extinguisher Installation

SUBTASK 26-26-01-200-004

- (1) If the fire extinguisher has a pressure gauge, make sure that the fire extinguisher has the correct pressure.

SUBTASK 26-26-01-430-001

- (2) Make sure that the extinguisher is correctly installed in its mounting bracket.

SUBTASK 26-26-01-430-002

- (3) Fasten the quick-release strap.

SUBTASK 26-26-01-350-001

- (4) If installed, remove the transit pin.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-26-01



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AIRCRAFT MAINTENANCE MANUAL

HALON FIRE EXTINGUISHERS - INSPECTION/CHECK

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has a task to inspect the portable halon fire extinguishers.
- C. The portable fire extinguishers are installed in several general locations in the passenger compartment and flight compartment. If the extinguisher is not easy to see, the location will be identified with a placard. The extinguishers are usually installed in one or more of these areas: galley or lavatory stowage areas, closets, doghouses, near attendant seats. There is one halon extinguisher installed in the flight compartment.
- D. To service or recharge the fire extinguisher, refer to the applicable vendor manuals.

TASK 26-26-01-200-801

2. Halon Fire Extinguishers - Inspection/Check

(Figure 601)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
26-26-01-020-801	Halon Fire Extinguisher Removal (P/B 401)
26-26-01-430-801	Halon Fire Extinguisher Installation (P/B 401)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-2529	Gauge - Force, Push/Pull/Spring Scale, 50 Pound Capacity Part #: FDIX 50 Supplier: 0BFD9 Opt Part #: FDI 50 Supplier: 0BFD9 Opt Part #: FDV 50 Supplier: 0BFD9
COM-11525	Gauge - Force, 10-lb capacity, with 0.05 increments and +/-0.2% accuracy or better Part #: PS-10 Supplier: 1GHM7

C. Location Zones

Zone	Area
200	Upper Half of Fuselage
211	Flight Compartment - Left

D. Procedure

SUBTASK 26-26-01-210-001

- (1) Make sure the instruction decal and the nameplate are in good condition.

SUBTASK 26-26-01-210-010

- (2) Halon Fire Extinguisher Removal, TASK 26-26-01-020-801.

SUBTASK 26-26-01-200-005

- (3) If the fire extinguisher has a pressure gage, make sure that the fire extinguisher has the correct pressure.

EFFECTIVITY
AKS ALL

26-26-01



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SUBTASK 26-26-01-200-003

- (4) If the fire extinguisher has no pressure gage, use recommended scale as follows:

NOTE: Its acceptable to use an equivalent scale if it follows the resolution and accuracy requirement, specified in the table below.

NOTE: Both scales in the table below give the same resolution and accuracy, but the total error is different due to the capacity of the scale. Therefore, use force gauge, COM-11525, as the recommended scale for bottles that weigh between 0 to 10 lbs. Similarly, use gauge, COM-2529, for bottles that weigh between 10-50 lbs.

Recommended Scales for Portable Fire Extinguishers

Scale	Bottle Weight	Resolution	Accuracy (%)	Total Error
force gauge, COM-11525, or equivalent	0–10 lb (0–4.5 kg)	0.05 lb (22.7 g)	.2	0.02 lb (0.01 kg)
gauge, COM-2529, or equivalent	10–50 lb (4.5–22.7 kg)	0.05 lb (22.7 g)	.2	0.10 lb (0.05 kg)

- (a) Make sure that the weight of the fire extinguisher is not less than the weight shown on the extinguisher nameplate.

SUBTASK 26-26-01-210-002

- (5) Make sure the mounting bracket is attached correctly to the airplane.

SUBTASK 26-26-01-210-011

- (6) Halon Fire Extinguisher Installation, TASK 26-26-01-430-801.

SUBTASK 26-26-01-210-003

- (7) Make sure the extinguisher is installed tightly to the mounting bracket.

SUBTASK 26-26-01-210-004

- (8) Make sure that the Handle Lockpin [2] and Witness Wire [1] (pull-tite seal) are correctly installed on the handle.

- (a) If the Witness Wire [1] is missing or broken, then do one of the steps below:

1) Replace the Fire Extinguisher bottle.

2) Replace the Witness Wire [1]:

a) Get a Witness Wire [1] from Kiddie Aerospace.

b) Install the Witness Wire [1]:

<1> Install the Witness Wire [1] through the loop in the Handle Lockpin [2] and around the body of the valve assembly.

<2> Pull the Witness Wire [1] tight and crimp the lead seal.

SUBTASK 26-26-01-210-005

- (9) Examine the pressure gage (if installed) and make sure the extinguisher has the correct pressure.

SUBTASK 26-26-01-210-006

- (10) Make sure there is no physical damage to the extinguisher.



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SUBTASK 26-26-01-210-008

- (11) If there are other manufacturer inspection or maintenance procedures that show on the extinguisher, do those procedures.

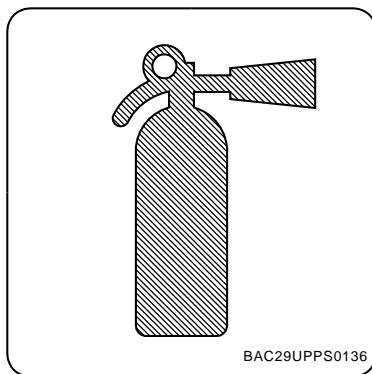
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EFFECTIVITY
AKS ALL

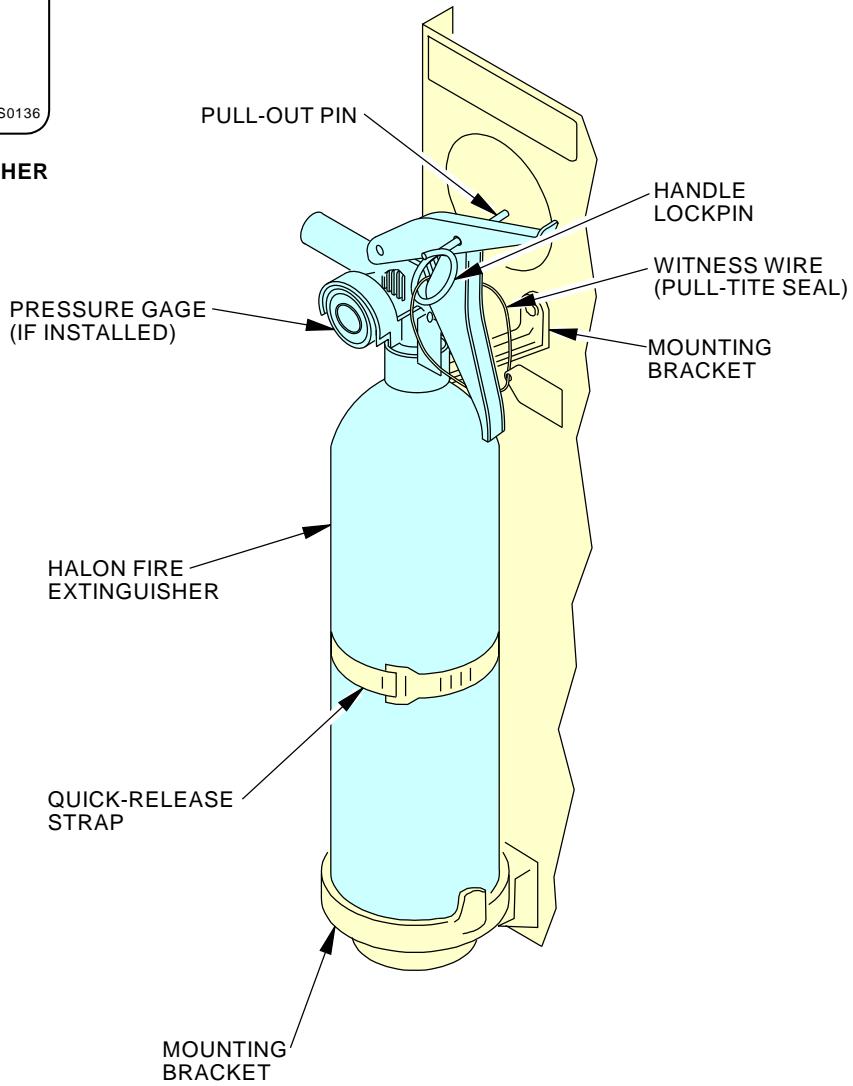
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AIRCRAFT MAINTENANCE MANUAL



**PORTABLE FIRE EXTINGUISHER
PLACARD**



**HALON FIRE EXTINGUISHER
(EXAMPLE)**

F27539 S0006568425_V4

Halon Fire Extinguishers Inspection
Figure 601/26-26-01-990-803 (Sheet 1 of 2)

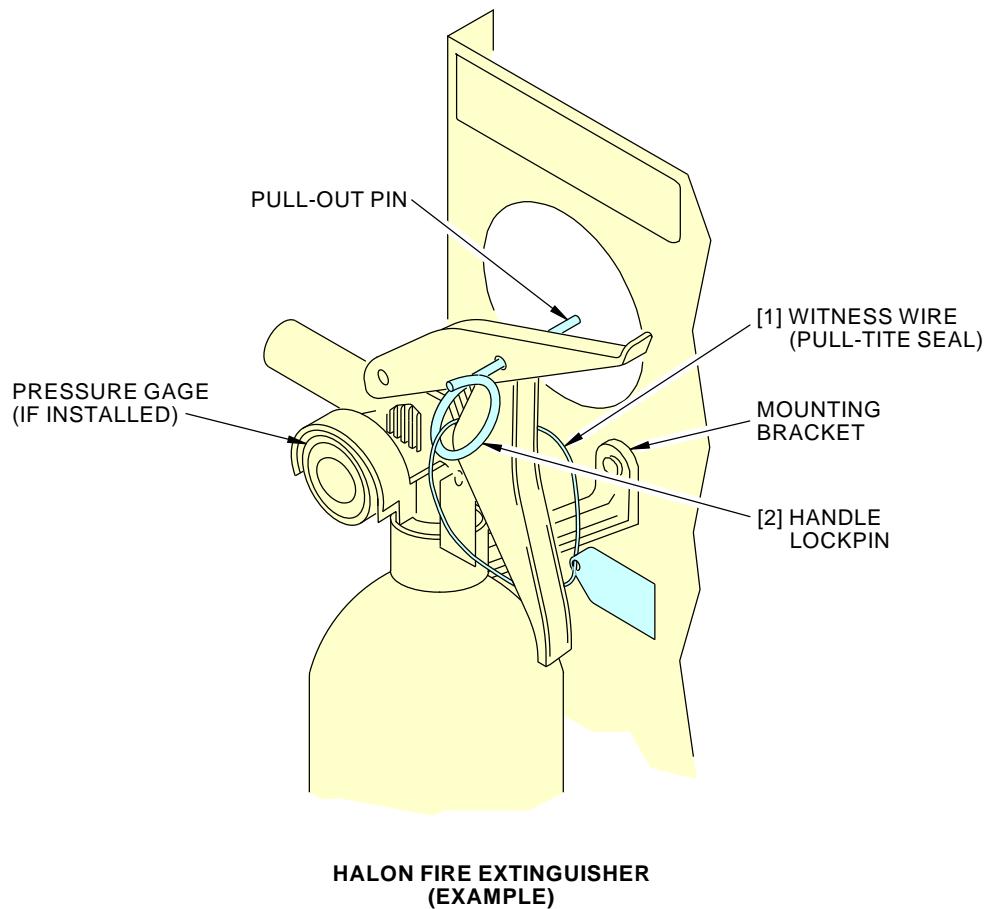
EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL



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Halon Fire Extinguishers Inspection
Figure 601/26-26-01-990-803 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

WATER FIRE EXTINGUISHERS- REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. The extinguisher is mounted on a bracket which has a quick-release strap.

TASK 26-26-02-020-801

2. Water Fire Extinguisher Removal

A. General

- (1) This task gives instructions to remove the Water Fire Extinguisher.

B. Procedure

SUBTASK 26-26-02-030-001

- (1) Unfasten the quick-release strap.

SUBTASK 26-26-02-020-001

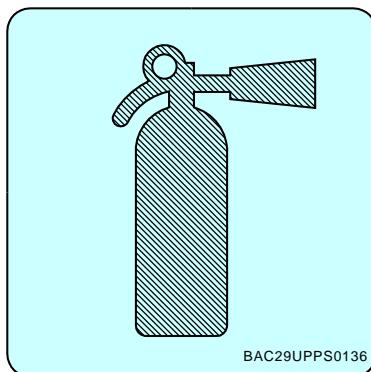
- (2) Remove the extinguisher from the bracket.

———— END OF TASK ————

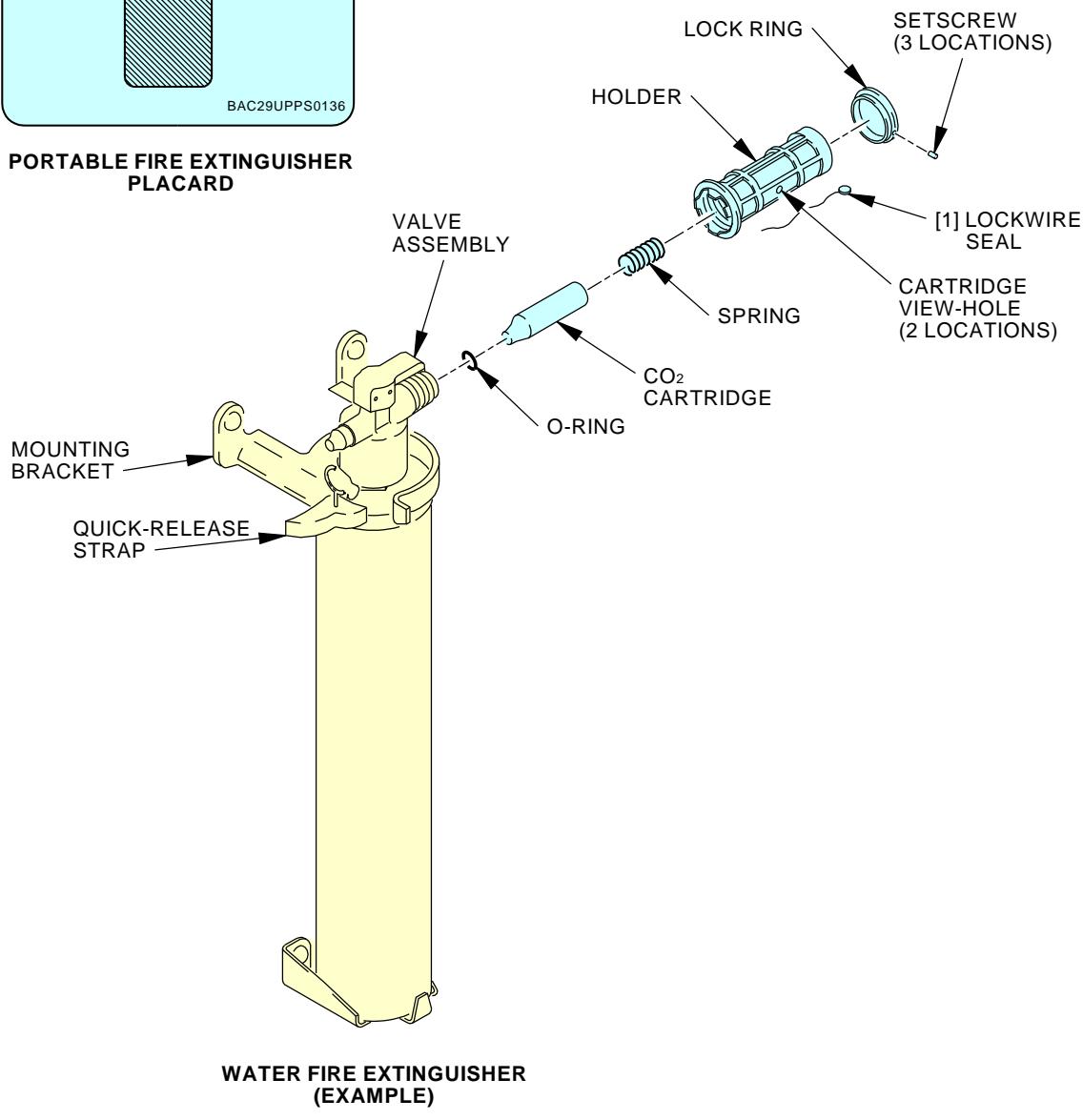
EFFECTIVITY
AKS ALL

26-26-02

D633A101-AKS



PORTABLE FIRE EXTINGUISHER PLACARD



F27540 S0006568429_V3

Water-Type Fire Extinguishers Installation
Figure 401/26-26-02-990-802

EFFECTIVITY
AKS ALL

26-26-02

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AIRCRAFT MAINTENANCE MANUAL

TASK 26-26-02-430-801

3. Water Fire Extinguisher Installation

Figure 401

A. General

- (1) This task gives instructions to Water Fire Extinguisher

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-11525	Gauge - Force, 10-lb capacity, with 0.05 increments and +/-0.2% accuracy or better Part #: PS-10 Supplier: 1GHM7

C. Water Fire Extinguisher Installation

SUBTASK 26-26-02-221-001

- (1) Use the force gauge, force gauge, COM-11525, and make sure the weight of the extinguisher is between 6.630 lb (3.007 kg) and 7.130 lb (3.234 kg)

SUBTASK 26-26-02-430-001

- (2) Make sure that the extinguisher is correctly installed in its mounting bracket.

SUBTASK 26-26-02-430-002

- (3) Fasten the quick-release strap.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

26-26-02



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

WATER FIRE EXTINGUISHERS - INSPECTION/CHECK

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has a task to inspect the portable water fire extinguishers.
- C. The portable fire extinguishers are installed in several general locations in the passenger compartment. If the extinguisher is not easy to see, the location will be identified with a placard. The extinguishers are usually installed in one or more of these areas: galley or lavatory stowage areas, closets, doghouses, near attendant seats.
- D. To service or recharge the fire extinguisher, refer to the applicable vendor manuals.

TASK 26-26-02-200-801

2. Water Fire Extinguishers - Inspection/Check

(Figure 601)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
26-26-02-020-801	Water Fire Extinguisher Removal (P/B 401)
26-26-02-430-801	Water Fire Extinguisher Installation (P/B 401)

B. Tools/Equipment

Reference	Description
STD-753	Scale - Push/Pull, 0-25 pound (0-11 kilogram) Capacity, 1/4 pound (113 gram) Accuracy

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lockwire seal	Not Specified	

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Procedure

SUBTASK 26-26-02-210-001

- (1) Make sure the instruction decal and the nameplate are in good condition.

SUBTASK 26-26-02-210-010

- (2) Do the following: Water Fire Extinguisher Removal, TASK 26-26-02-020-801.

SUBTASK 26-26-02-210-011

- (3) Use a push/pull scale 0-25 pound (0-11 kilogram), STD-753 and make sure the weight of the extinguisher is not less than the weight shown on the extinguisher nameplate.

SUBTASK 26-26-02-210-012

- (4) Do the following: Water Fire Extinguisher Installation, TASK 26-26-02-430-801.

SUBTASK 26-26-02-210-002

- (5) Make sure the mounting bracket is attached correctly to the airplane.

SUBTASK 26-26-02-210-003

- (6) Make sure the extinguisher is installed tightly to the mounting bracket.

EFFECTIVITY
AKS ALL

26-26-02



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SUBTASK 26-26-02-210-004

- (7) Make sure the lockwire seal [1] or seal wire is correctly installed on the handle.
- (a) If the lockwire seal [1] or seal wire is missing or broken, then do one of the steps below:
- 1) Replace the bottle.
 - 2) Replace the seal wire with a new one:
 - a) Get a new seal wire from Kidde Aerospace.
 - b) Install the seal wire:
 - <1> Install the seal wire through the holes in the lock ring and the body of the valve assembly.
 - <2> Pull the seal wire tight and crimp the lead seal.

SUBTASK 26-26-02-210-006

- (8) Make sure there is no physical damage to the extinguisher.

SUBTASK 26-26-02-210-008

- (9) Make sure there are no leaks in the extinguisher.

SUBTASK 26-26-02-210-009

- (10) If there are other manufacturer inspection or maintenance procedures that show on the extinguisher, do those procedures.

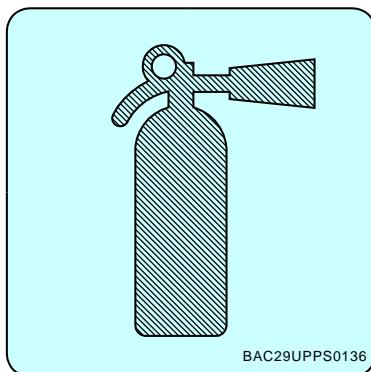
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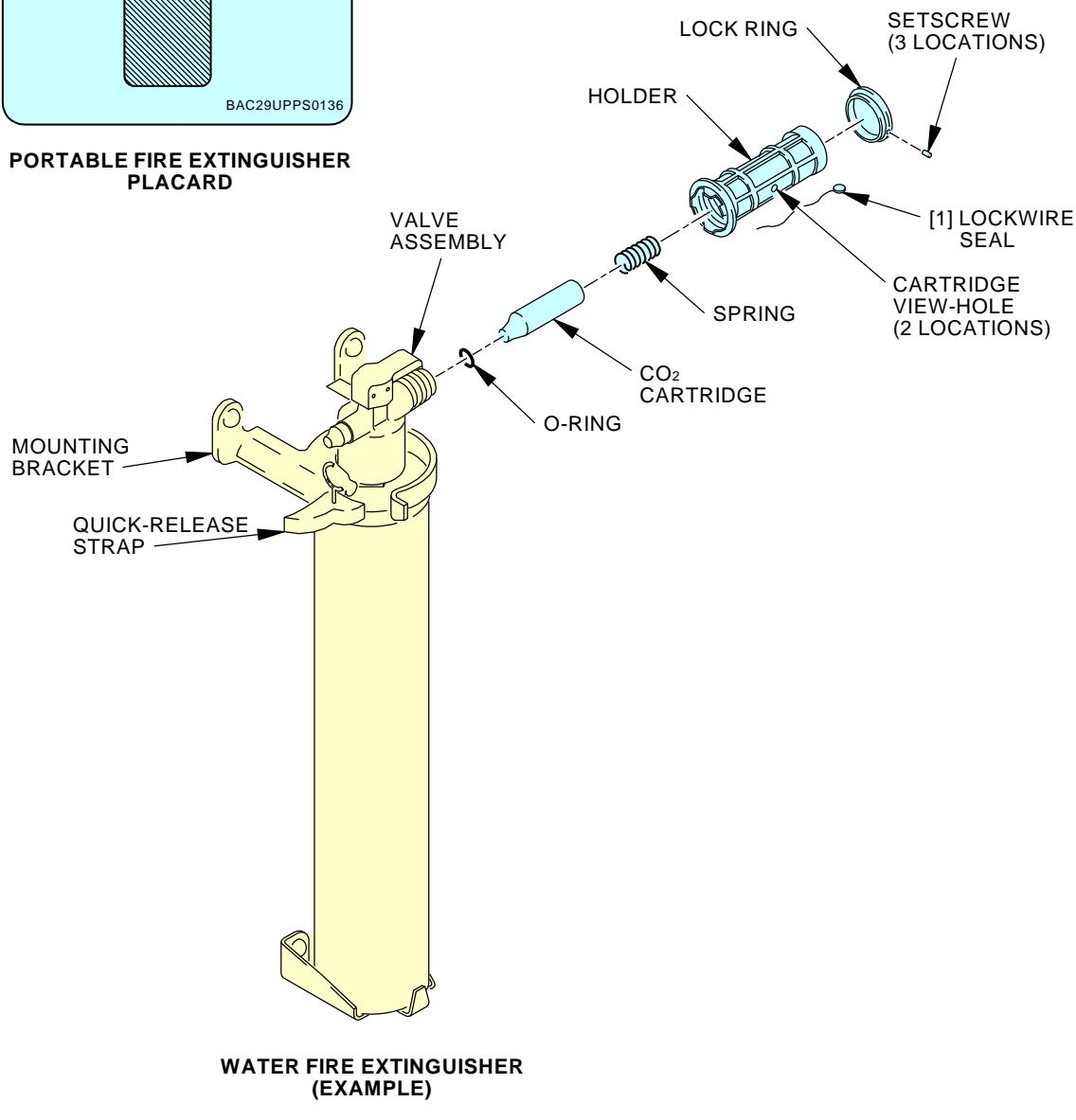
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**PORTABLE FIRE EXTINGUISHER
PLACARD**



**WATER FIRE EXTINGUISHER
(EXAMPLE)**

F27540 S0006568429_V3

Water-Type Fire Extinguishers Inspection
Figure 601/26-26-02-990-801

EFFECTIVITY	AKS ALL
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