TROUBLE SHOOTING MANUAL

HIGHLIGHTS

REVISION NO. 54 May 01/08

Pages which have been revised are outlined below, together with the Highlights of the Revision

CH/SE/SU C	REASON FOR CHANGE	EFFECTIVITY
PAGES		

CHAPTER 26

T. OF C. 4- 6, 8	REVISED TO REFLECT THIS REVISION INDICATING NEW, REVISED, AND/OR DELETED PAGES REVISED TO REFLECT THIS REVISION CORRECTION/ADDITION/AMPLIFICATION NO DEFINITION AMM REFERENCE CHANGED FROM 261715 TO 262341.	201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,
	CORRECTION/ADDITION/AMPLIFICATION CORRECTED TEXT EFFECTIVITY UPDATED (THROUGHOUT THE TEXT)	ALL 201-225, 227-227, 229-253, 276-299, 426-450, 476-480, 503-549, 551-564, 701-749,
201- 202,	TFU261300001 1 REMOVED/REJECTED "CHECK FDU APU LOOP A(B) WARN CKT" MESSAGE. TECHNICAL CORRECTIONS RE-AUTHORING LAYOUT IMPROVED/MATERIAL RELOCATED	ALL ALL
26-15-00 206	EFFECTIVITY UPDATED (THROUGHOUT THE TEXT)	201-225, 227-227, 229-250, 252-299, 426-456, 476-499, 503-549, 551-599, 701-749,
26-16-00 201- 208	EFFECTIVITY UPDATED EFFECTIVITY UPDATED (THROUGHOUT THE TEXT)	201-225, 227-227, 229-299, 426-456, 476-499, 503-549, 551-599, 701-749,
26-16-00 302, 308	EFFECTIVITY UPDATED EFFECTIVITY UPDATED (THROUGHOUT THE TEXT)	201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,
26-17-00	EFFECTIVITY UPDATED	

26-HIGHLIGHTS Page 1 of 2 REVISION NO. 54 May 01/08

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201- 208, 210- 229	EFFECTIVITY UPDATED (THROUGHOUT THE TEXT)	201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,
	EFFECTIVITY UPDATED EFFECTIVITY UPDATED (THROUGHOUT THE TEXT)	201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,
26-22-00 217- 219	EFFECTIVITY UPDATED (THROUGHOUT THE TEXT)	201-225, 227-227, 229-250, 252-299, 426-456, 476-499, 503-549, 551-599, 701-749,
	EFFECTIVITY UPDATED EFFECTIVITY UPDATED (THROUGHOUT THE TEXT)	201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,
26-23-00 302	EFFECTIVITY UPDATED EFFECTIVITY UPDATED (THROUGHOUT THE TEXT)	201-225, 227-227, 229-244, 247-250, 252-299, 426-499, 503-549, 551-599,

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CHAPTER 26

FIRE PROTECTION

LIST OF EFFECTIVE PAGES

N, R or D indicates pages which are New, Revised or Deleted respectively Remove and insert the affected pages and complete the Record of Revisions and the Record of Temporary Revisions as necessary

CH/SE/SU	C PA	GE	DATE	CH/SE/SU	С		PAGE	DATE	CH/SE/SU	С	PAGE	DATE
RECORD				26-0BSV			114	Feb01/03	26-12-00		232	Feb01/04
OF TEMP.				26-0BSV				Feb01/05	26-12-00			Feb01/04
REVISION				20 0201				. 650 1, 65	26-12-00			Feb01/04
				26-CFDS			101	May01/07	26-12-00			Feb01/04
L.E.P.	R 1-	3 I	May01/08	26-CFDS				May01/07	26-12-00			Feb01/04
T. of C.			Feb01/04	26-CFDS				Nov01/06	26-12-00			Nov01/05
T. of C.			Feb01/04	26-CFDS				Nov01/06	26-12-00			Feb01/04
T. of C.			Feb01/08	26-CFDS		R		May01/08	26-12-00			Nov01/05
T. of C.	R		May01/08	26-CFDS				Nov01/06	26-12-00			Feb01/04
T. of C.	R		May01/08	26-CFDS				Nov01/06	26-12-00			Nov01/05
T. of C.	R		May01/08					-	26-12-00		242	Feb01/04
T. of C.			Feb01/08	26-12-00			201	Feb01/96	26-12-00			Nov01/05
T. of C.	R	8 I	May01/08	26-12-00			202	Feb01/96	26-12-00		244	Feb01/04
				26-12-00				May01/07	26-12-00			Nov01/05
26-ECAM	1	01	Feb01/06	26-12-00		R		May01/08	26-12-00		246	Feb01/04
26-ECAM	1	02 I	May01/07	26-12-00		R		May01/08	26-12-00		247	Nov01/05
26-ECAM			May01/04	26-12-00		R		May01/08	26-12-00		248	Feb01/04
26-ECAM			May01/04	26-12-00				Feb01/07	26-12-00		249	Nov01/05
26-ECAM			Nov01/05	26-12-00			208	May01/07	26-12-00		250	Nov01/05
26-ECAM	1	0 6 I	Nov01/06	26-12-00		R		May01/08	26-12-00		251	Feb01/04
26-ECAM	1	07 I	Nov01/06	26-12-00		R		May01/08	26-12-00		252	Feb01/04
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26-ECAM	1	10	Feb01/08	26-12-00			213	May01/07	26-12-00		255	Nov01/05
26-ECAM	1	11 I	Nov01/06	26-12-00		R	214	May01/08	26-12-00		256	Feb01/04
26-ECAM	1	12	Feb01/08	26-12-00		R	215	May01/08	26-12-00		257	Feb01/04
				26-12-00		R	216	May01/08	26-12-00		258	Nov01/05
26-LOCAL	1	01	Aug01/07	26-12-00			217	Feb01/07	26-12-00	F	259	May01/08
				26-12-00			218	May01/07	26-12-00		260	Feb01/04
26-0BSV	1	01	Feb01/04	26-12-00		R	219	May01/08	26-12-00		261	Feb01/04
26-0BSV	1	02	Feb01/04	26-12-00		R	220	May01/08	26-12-00		262	Nov01/05
26-0BSV	1	03	Feb01/04	26-12-00		R		May01/08	26-12-00		263	Feb01/04
26-0BSV	1	04	Feb01/04	26-12-00			222	Feb01/07	26-12-00		264	Feb01/04
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ECAM Warning				
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Illumination without Associated				
ECAM Warning				
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Loss of the INOP LOOP B discrete			213	ALL
from the APU FDU				
Loss of the columns 1 and 3 of the			215	ALL
legend of the APU FIRE			_	
Pushbutton-Switch				
Loss of the columns 2 and 4 of the			217	ALL
legend of the APU FIRE				
Pushbutton-Switch				

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SUBJECT Loss of APU Fire- Test LOOP A Loss of APU Fire- Test LOOP B Maintenance Test of the APU FDU not possible	CH/SE/SU	219 221	EFFECTIVITY ALL ALL ALL
APU FIRE AND OVERHEAT DETECTION TASK SUPPORTING DATA	26-13-00	301	ALL
AVIONICS COMPARTMENT SMOKE DETECTION FAULT ISOLATION PROCEDURES Avionics Smoke Warnings Inoperative	26-15-00		ALL ALL
Loss of the SMOKE Legend on the EMER ELEC PWR/GEN 1 LINE Pushbutton Switch		203	ALL
Smoke Warnings without Smoke Odours and mist in the cabin and not fire			ALL ALL
CARGO COMPARTMENT SMOKE DETECTION FAULT ISOLATION PROCEDURES FWD LDCC Smoke Detector(s) Fault	26-16-00		ALL 201-225, 227-227 229-299, 426-455 476-499, 503-549 551-599, 701-749
AFT LDCC Smoke Detector(s) Fault		203	-
<pre>Cargo-Compartment Smoke Warning(s) without Fire</pre>		205	-
SMOKE Indicator Light inoperative		207	-
Both Smoke-Detectors of one AFT LDCC Cavity Inoperative AFT LDCC Smoke-Detector		209 210	456-475,
<pre>Inoperative AFT LDCC Smoke-Detector</pre>		211	·
Contamination Both Smoke-Detectors of one FWD LDCC Cavity Inoperative		212	456-475,

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SUBJECT FWD LDCC Smoke-Detector	CH/SE/SU		EFFECTIVITY 456-475,
<pre>Inoperative FWD LDCC Smoke-Detector Contamination</pre>		214	456-475,
CAN Bus Problem FWD LDCC Smoke-Detection		215	456-475,
CAN Bus A or CAN Bus B Failure		217	456-475,
CIDS-SDF Channel y Failure		219	456-475,
CAN Bus Problem AFT LDCC		221	456-475,
Smoke-Detection			
CARGO COMPARTMENT SMOKE DETECTION	26-16-00		
TASK SUPPORTING DATA	20 10 00	301	ALL
LAVATORY SMOKE DETECTION	26-17-00	204	A1 1
FAULT ISOLATION PROCEDURES		201	ALL
Lavatory Smoke Detection Fault		201	201-225, 227-227 229-299, 426-455
			476-499, 503-549
			551-599, 701-749
SDCU Single Channel Fault		203	
and a migre on a mice i a a c			229-299, 426-455
			476-499, 503-549
			551-599, 701-749
SDCU Double Channel Fault		206	
			229-299, 426-455
			476-499, 503-549
			551-599, 701-749
Lavatory Smoke Warning(s) without		217	/
Fire			229-299, 426-455
			476-499, 503-549
		2.4	551-599, 701-749
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			229-299, 426-455
			476-499, 503-549 551-599, 701-749
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			551-599, 701-749
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			229-299, 426-455
			476-499, 503-549
			551-599, 701-749
SDCU Channel 1 (10WQ) Fault		226	201-225, 227-227
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SUBJECT	CH/SE/SU	C I	PAGE	EFFECTIVI'	ΤΥ
	<u> </u>	_ =		229-299,	
				476-499,	
				551-599,	
SDCU Channel 2 (10WQ) Fault			228	-	
				229-299,	
				476-499,	
				551-599,	
Lavatory Smoke-Detector			230	456-475,	
Inoperative				450 4157	
Lavatory Smoke-Detector			232	456-475,	
Contamination			LJL	700 710,	
DEU-B CAN Bus Fault			277	456-475,	
DEU-B Inoperative				456-475,	
CIDS Data-Bus Middle-Line			236	-	
			230	430-413,	
Inoperative			277	/54 /75	
Unexpected Lavatory Smoke-Detector				456-475,	
Communication RS232 to CIDS			238	456-475,	
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CIDS-SDF Channel 1 and/or 2			239	456-475,	
Failure					
Lavatory Smoke Detection Failed				456-475,	
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No Lavatory Smoke Detection			246	456-475,	
available					
Fault in Circuit Breaker or CAN			248	456-475,	
Bus					
LAVATORY SMOKE DETECTION	26-17-00				
TASK SUPPORTING DATA	20 11 00		301	201-225,	227-227
TASK SOFFORTING DATA			J 0 1	229-299,	
				476-499,	
				551-599,	
				JJ 1-J77,	101-149
ENGINE FIRE EXTINGUISHING	26-21-00				
FAULT ISOLATION PROCEDURES			201	ALL	
The SQUIB Legend of the ENG				ALL	
1/AGENT 1 Pushbutton Switch does				ALL	
not Come on					
The SQUIB Legend of the ENG			20%	ALL	
1/AGENT 2 Pushbutton Switch does			204	ALL	
not Come on					
			207	A. I	
The SQUIB Legend of the ENG			201	ALL	
2/AGENT 1 Pushbutton Switch does					
not Come on			240		
The SQUIB Legend of the ENG			∠10	ALL	
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SUBJECT	CH/SE/SU	<u>c</u>	PAGE	EFFECTIVITY
2/AGENT 2 Pushbutton Switch does				
not Come on The SQUIB Legends of the ENG 1 and			213	ALL
ENG 2/AGENT 1 Pushbutton Switches			_	
do not Come on			24/	A
The SQUIB Legends of the ENG 1 and ENG 2/AGENT 2 Pushbutton Switches			214	ALL
do not Come on				
The SQUIB and DISCH Legends of the			215	ALL
ENG 1/AGENT 1 Pushbutton Switch do not Come on				
The SQUIB and DISCH Legends of the			217	ALL
ENG 1/AGENT 2 Pushbutton Switch do				
not Come on			210	ALL
The SQUIB and DISCH Legends of the ENG 2/AGENT 1 Pushbutton Switch do			219	ALL
not Come on				
The SQUIB and DISCH Legends of the			221	ALL
ENG 2/AGENT 2 Pushbutton Switch do not Come on				
The DISCH Legend of the ENG			223	ALL
1/AGENT 1 Pushbutton Switch does				
not Come on The DISCH Legend of the ENG			225	ALL
1/AGENT 2 Pushbutton Switch does			223	ALL
not Come on				
The DISCH Legend of the ENG			227	ALL
<pre>2/AGENT 1 Pushbutton Switch does not Come on</pre>				
The DISCH Legend of the ENG			229	ALL
2/AGENT 2 Pushbutton Switch does				
not Come on The DISCH Legend of the ENG			231	ALL
1/AGENT 1 Pushbutton Switch Stays			231	ALL
on			_	
The DISCH Legend of the ENG 1/AGENT 2 Pushbutton Switch Stays			233	ALL
on				
The DISCH Legend of the ENG			235	ALL
2/AGENT 1 Pushbutton Switch Stays				
on The DISCH Legend of the ENG			237	ALL
2/AGENT 2 Pushbutton Switch Stays			_5.	
on			0-0	
Possible Engine 1 Fire or Detection System Failure			239	ALL
veccetion by stem faiture				

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SUBJECT Possible Engine 2 Fire or Detection System Failure	CH/SE/SU	<u>c</u>		EFFECTIVITY ALL
APU FIRE EXTINGUISHING FAULT ISOLATION PROCEDURES APU FIRE Signal Channel A and/or Channel B Fault	26-22-00			ALL ALL
APU FIRE PUSH Light Fault			203	ALL
APU SQUIB/DISCH Light Fault			206	ALL
APU AUTO EXTING TEST Light Fault			209	ALL
LGCIU Signal Mismatch			212	ALL
APU DISCH light is illuminated			214	ALL
Fault of the Fire Emergency Stop-Relay 6W F			217	ALL
APU FIRE EXTINGUISHING	26-22-00			
TASK SUPPORTING DATA			301	ALL
CARGO COMPARTMENT FIRE EXTINGUISHING	26-23-00			
FAULT ISOLATION PROCEDURES	20 23 00		201	ALL
LDCC BTL 1 AFT SQUIB Fault			201	
				229-299, 426-455
				476-499, 503-549
				551-599, 701-749
LDCC BTL 2 AFT SQUIB Fault			204	245-245,
LDCC BTL 1 Low Pressure			206	-
				229-299, 426-455
				476-499, 503-549
				551-599, 701-749
LDCC BTL 2 FWD SQUIB Fault			209	245-245,
LDCC BTL 2 Low Pressure			211	245-245,
LDCC BTL 1 FWD SQUIB FAULT			213	
				229-299, 426-455
				476-499, 503-549
				551-599, 701-749
<pre>Fire-Extinguisher Bottle 1 FWD-SQUIB Fault</pre>			216	456-475,
Fire-Extighuisher Bottle 1			218	456-475,
AFT-SQUIB Fault				
Fire-Extinguisher Bottle 1 Low Pressure			220	456-475,
CARGO COMPARTMENT FIRE EXTINGUISHING	26-23-00			
TASK SUPPORTING DATA			301	ALL

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FIRE PROTECTION - FAULT SYMPTOMS

WARNINGS/MALFUNCTIONS		CFDS FAULT MESSAGES	S		FAULT ISOLATION
WARNINGS/ MALI ONC ! TONS	SOURCE	MESSAGE	ATA	С	PROCEDURE

Upper ECAM DU Warnings

_		_	Γ		Г
APU_FIRE					262200 P 201 T 810 801
APU FIRE DET FAULT	FDU APU	CHECK APU FIRE LOOP B associated with	261315	1	261300 P 201 T 810 801
	FDU APU	CHECK APU FIRE LOOP A	261315	1	
APU FIRE DET FAULT	FDU APU	CHECK FDU APU FIRE A WARN CKT	261300	1	261300 P 204 T 810 802
	FDU APU	associated with CHECK FDU APU FIRE B WARN CKT	261300	1	
APU FIRE DET FAULT	FDU APU	FDU APU	261334	1	261300 P 201 T 810 801
APU FIRE DET FAULT	FDU APU	GND FDU APU	261334	1	261300 P 201 T 810 801
APU FIRE LOOP A FAULT	FDU APU	CHECK APU FIRE LOOP A	261315	1	261300 P 201 T 810 801
APU FIRE LOOP A FAULT	FDU APU	CHECK FDU APU FIRE TEST PB SW/FDU APU	261300	1	261300 P 219 T 810 810
APU FIRE LOOP A FAULT	FDU APU	CHECK FDU APU LOOP A WARN CKT	261300	1	261300 P 201 T 810 801
APU FIRE LOOP B FAULT	FDU APU	CHECK APU FIRE LOOP B	261315	1	261300 P 201 T 810 801
APU FIRE LOOP B FAULT	FDU APU	CHECK FDU APU FIRE TEST PB SW/FDU APU	261300	1	261300 P 221 T 810 811
APU FIRE LOOP B FAULT	FDU APU	CHECK FDU APU LOOP B WARN CKT	261300	1	261300 P 201 T 810 801
AVIONICS SMOKE					261500 P 205 T 810 803

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WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES					FAULT ISOLATION
WARNINGS/MALFUNCTIONS	SOURCE	MESSAGI	 [АТА	С	
AVIONICS SMOKE associated with SMOKE AVNCS-odour and mist in the cabin and not fire						261500 P 206 T 810 804
AVIONICS SMOKE associated with SMOKE LAVATORY SMOKE and SMOKE AVNCS-odour and mist in the cabin and not fire						261500 P 206 T 810 804
AVIONICS SMOKE associated with CARGO SMOKE and SMOKE AVNCS-odour and mist in the cabin and not fire						261500 P 206 T 810 804
AVIONICS SMOKE associated with SMOKE LAVATORY SMOKE and CARGO SMOKE and SMOKE AVNCS-odour and mist in the cabin and not fire						261500 P 206 T 810 804
AVIONICS SMOKE	AEVC	AEVC		212634	1	212600 P 239 T 810 813
AVIONICS SMOKE	AEVC	SMOKE DETECTOR	1WA	261515	1	212600 P 234 T 810 811
CARGO SMOKE associated with SMOKE AVNCS-odour and mist in the cabin and not fire						261500 P 206 T 810 804

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LIADNINGS /MALEUNGTIONS	CFDS FAULT MESSAGES				FAULT ISOLATION	
WARNINGS/MALFUNCTIONS	SOURCE	MESSAGE	 !	ATA	С	!!
CARGO SMOKE associated with AVIONICS SMOKE and SMOKE AVNCS-odour and mist in the cabin and not fire						261500 P 206 T 810 804
CARGO SMOKE associated with SMOKE LAVATORY SMOKE and SMOKE AVNCS-odour and mist in the cabin and not fire						261500 P 206 T 810 804
CARGO SMOKE associated with AVIONICS SMOKE and SMOKE LAVATORY SMOKE and SMOKE AVNCS-odour and mist in the cabin and not fire						261500 P 206 T 810 804
CARGO SMOKE						261600 P 205 T 810 805
CARGO SMOKE associated with FIRE - LAV SMOKE DET Smoke and/or oil smell in the cabin						261600 P 205 T 810 805
ENG 1 FIRE						262100 P 239 T 810 819
ENG 1 FIRE	FDU 1	CHECK ENG1 FIRE associated with CHECK ENG1 FIRE	1	261215 261215	İ	261200 P 223 T 810 807
ENG 1 FIRE	FDU 1	CHECK ENG1 FIRE	LOOP A+	261215	1	261200 P 291 T 810 842

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WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES			FAULT ISOLATION	
WARNINGS/MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE
ENG 1 FIRE DET FAULT	FDU 1	CHECK ENG1 FIRE LOOP A associated with	261215	1	261200 P 223 T 810 807
	FDU 1 	CHECK ENG1 FIRE LOOP B	261215	1	
ENG 1 FIRE LOOP A FAULT					261200 P 255 T 810 823
ENG 1 FIRE LOOP A FAULT	FDU 1	CHECK ENG1 FIRE LOOP A	261215	1	261200 P 203 T 810 803
ENG 1 FIRE LOOP B FAULT	FDU 1	CHECK ENG1 FIRE LOOP B	261215	1	261200 P 208 T 810 804
ENG 1 FIRE LOOP B FAULT	FDU 1	CHECK FDU ENG1 CHAN B SUPPLY	261200	1	261200 P 258 T 810 824
ENG 1 FIRE LOOP B FAULT	FDU 1	CHECK FDU ENG1 SUPPLY	261200	1	261200 P 258 T 810 824
ENG 2 FIRE					262100 P 241 T 810 820
ENG 2 FIRE	FDU 2	CHECK ENG2 FIRE LOOP A associated with	261215		261200 P 228 T 810 808
 	FDU 2 	CHECK ENG2 FIRE LOOP B	261215	1	
ENG 2 FIRE	FDU 2	CHECK ENG2 FIRE LOOP A+ LOOP B	261215	1	261200 P 294 T 810 843
ENG 2 FIRE DET FAULT	FDU 2	CHECK ENG2 FIRE LOOP A associated with	261215	1	261200 P 228 T 810 808
	FDU 2	CHECK ENG2 FIRE LOOP B	261215	1	
ENG 2 FIRE LOOP A FAULT					261200 P 262 T 810 825
ENG 2 FIRE LOOP A FAULT	FDU 2	CHECK ENG2 FIRE LOOP A	261215	1	261200 P 213 T 810 805
ENG 2 FIRE LOOP B FAULT	FDU 2	CHECK ENG2 FIRE LOOP B	261215	1	261200 P 218 T 810 806
ENG 2 FIRE LOOP B FAULT	FDU 2	CHECK FDU ENG2 CHAN B SUPPLY	261200	1	261200 P 265 T 810 826

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	WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES				FAULT ISOLATION	
	WARNINGS/ MALFONCTIONS	SOURCE	MESSAGE	ATA	С	!	
	ENG 2 FIRE LOOP B FAULT	FDU 2	CHECK FDU ENG2 SUPPLY	261200	1	261200 P 265 T 810 826	
	SMOKE AFT CARGO SMOKE associated with FIRE - LAV SMOKE DET Smoke and/or oil smell in the cabin					261600 P 205 T 810 805	
R	SMOKE AFT CRG BTL FAULT	SDCU	CRG FIRE BTL 1 AFT SQUIB / DIR 1/2 (101RH/102RH)	262341	1	262300 P 218 T 810 808	
R	SMOKE AFT CRG BTL FAULT associated with SMOKE FWD CRG BTL FAULT	SDCU	CRG FIRE BTL 1 LO PR	262341	1	262300 P 220 T 810 809	
	SMOKE AFT CRG DET FAULT associated with STS-Inop System AFT CRG DET	SDCU	SMK DET AFT LDCC (XWH) SMK DET AFT LDCC (YWH)	261615	1	261600 P 209 T 810 809	
	SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 10WH AFT LDCC	261615	2	261600 P 203 T 810 802	
	<u>SMOKE</u> AFT CRG DET FAULT	SDCU SDCU	SMOKE DET 3WH AFT LDCC associated with SMOKE DET 4WH AFT LDCC	261615 261615		261600 P 203 T 810 802	
	SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 3WH AFT LDCC + SMOKE DET 4WH AFT LDCC	261600	1	261600 P 203 T 810 802	
	SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 5WH AFT LDCC associated with SMOKE DET 6WH AFT LDCC	261615 261615	İ	261600 P 203 T 810 802	
	SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 5WH AFT LDCC + SMOKE DET 6WH AFT LDCC	261600	1	261600 P 203 T 810 802	
	SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 7WH AFT LDCC	261615	2	261600 P 203 T 810 802	
	SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 7WH AFT LDCC associated with SMOKE DET 8WH AFT LDCC	261615 261615	İ	261600 P 203 T 810 802	

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HADNINGS /MALEUNGTIONS	CFDS FAULT MESSAGES				FAULT ISOLATION	
WARNINGS/MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE	
SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 7WH AFT LDCC +	261600	1	261600 P 203 T 810 802	
SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 8WH AFT LDCC	261615	2	261600 P 203 T 810 802	
SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 9WH AFT LDCC	261615	2	261600 P 203 T 810 802	
SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 9WH AFT LDCC associated with SMOKE DET 10WH AFT LDCC	261615 261615		261600 P 203 T 810 802	
SMOKE AFT CRG DET FAULT	SDCU	SMOKE DET 9WH AFT LDCC + SMOKE DET 10HW AFT LDCC	261600	1	261600 P 203 T 810 802	
SMOKE FWD CARGO SMOKE associated with FIRE - LAV SMOKE DET Smoke and/or oil smell in the cabin					261600 P 205 T 810 805	
SMOKE FWD CRG BTL FAULT	SDCU	CRG FIRE BTL 1 FWD SQUIB / DIR 1/2 (101RH/102RH)	262341	1	262300 P 216 T 810 807	
SMOKE FWD CRG BTL FAULT associated with SMOKE AFT CRG BTL FAULT	SDCU	CRG FIRE BTL 1 LO PR	262341	1	262300 P 220 T 810 809	
SMOKE FWD CRG DET FAULT associated with STS-Inop System FWD CRG DET	SDCU	SMK DET FWD LDCC (XWH) SMK DET FWD LDCC (YWH)	261615	1	261600 P 212 T 810 812	
SMOKE FWD CRG DET FAULT	SDCU	SMOKE DET 1WH FWD LDCC associated with			261600 P 201 T 810 801	
 	SDCU 	SMOKE DET 2WH FWD LDCC	261615	2		
SMOKE FWD CRG DET FAULT	SDCU	SMOKE DET 1WH FWD LDCC + SMOKE DET 2WH FWD LDCC	261600	1	261600 P 201 T 810 801	
SMOKE FWD CRG DET FAULT	SDCU	SMOKE DET 3WH FWD LDCC	261615	2	261600 P 201 T 810 801	

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	WARNINGS/MALFUNCTIONS		CFDS FAULT MESSAGES		FAULT ISOLATION	
	WARNINGS/ MALFONCTIONS	SOURCE	MESSAGE	ATA	C	PROCEDURE
	SMOKE FWD CRG DET FAULT	SDCU	SMOKE DET 3WH FWD LDCC associated with	261615	2	261600 P 201 T 810 801
		SDCU	SMOKE DET 4WH FWD LDCC	261615	2	
	SMOKE FWD CRG DET FAULT	SDCU	SMOKE DET 3WH FWD LDCC + SMOKE DET 4WH FWD LDCC	261600	1	261600 P 201 T 810 801
	SMOKE FWD CRG DET FAULT	SDCU	SMOKE DET 4WH FWD LDCC	261615	2	261600 P 201 T 810 801
	SMOKE LAV+CRG DET FAULT					261700 P 206 T 810 803
R R	SMOKE LAV+CRG DET FAULT associated with	SDCU	CIDS(101RH)-SDF1 associated with	237334	1	261700 P 239 T 810 823
R R	STS-Inop System SMOKE DET	SDCU	CIDS(102RH)-SDF2	237334	1	
	SMOKE LAV+CRG DET FAULT	SDCU	SMOKE DET LOOP	261700	1	261700 P 206 T 810 803
	SMOKE LAV+CRG DET FAULT	SDCU	WRG:PIN PROG	261700	1	261700 P 221 T 810 806
	SMOKE LAV+CRG DET FAULT	SDCU	WRG:PIN PROG A/C TYPE	261700	1	261700 P 221 T 810 806
	SMOKE LAVATORY DET FAULT					261700 P 201 T 810 801
R	SMOKE LAVATORY DET FAULT associated with STS-Inop System LAV DET	SDCU	CIDS MID BUS M / DIR Y (FIN)	237300	1	261700 P 236 T 810 820
R	SMOKE LAVATORY DET FAULT associated with STS-Inop System LAV DET	SDCU	CIDS(102RH)-SDF2 BUS / CIDS(101RH)-SDF1	237334	1	261700 P 242 T 810 824
R	SMOKE LAVATORY DET FAULT associated with STS-Inop System LAV DET	SDCU	DEU-B(FIN)	237347	1	261700 Р 235 Т 810 819

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	WARNINGS/MALFUNCTIONS		CFDS FAULT MESSAGES			
	WARNINGS/ MALFORCTIONS	SOURCE	MESSAGE	ATA	С	ISOLATION PROCEDURE
R	SMOKE LAVATORY DET FAULT associated with STS-Inop System LAV DET	SDCU	SMK DET LAV X	261715	1	261700 P 230 T 810 815
	SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV A (1WQ)	261715	1	261700 P 201 T 810 801
	SMOKE LAVATORY DET FAULT associated with FIRE - LAV SMOKE DET SMOKE DET	SDCU	SMOKE DET LAV A (1WQ)	261715	1	261700 P 201 T 810 801
	<u>SMOKE</u> LAVATORY DET FAULT	SDCU	SMOKE DET LAV B (2WQ)	261715	1	261700 P 201 T 810 801
	SMOKE LAVATORY DET FAULT associated with FIRE - LAV SMOKE DET SMOKE DET SMOKE DET	SDCU	SMOKE DET LAV B (2WQ)	261715	1	261700 P 201 T 810 801
	SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV D (4WQ)	261715	1	261700 P 201 T 810 801
	SMOKE LAVATORY DET FAULT associated with FIRE - LAV SMOKE DET SMOKE DET	SDCU	SMOKE DET LAV D (4WQ)	261715	1	261700 P 201 T 810 801
	SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV E (5WQ)	261715	1	261700 P 201 T 810 801
	SMOKE LAVATORY DET FAULT associated with FIRE - LAV SMOKE DET SMOKE DET FAIL LAV E	SDCU	SMOKE DET LAV E (5WQ)	261715	1	261700 P 201 T 810 801
	SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV F (6WQ)	261715	1	261700 P 201 T 810 801
	SMOKE LAVATORY DET FAULT associated with FIRE - LAV SMOKE DET SMOKE DET	SDCU	SMOKE DET LAV F (6WQ)	261715	1	261700 P 201 T 810 801

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	WARNINGS/MALFUNCTIONS		CFDS FAULT MESSAGES			
	WARNINGS/MALFONCTIONS	SOURCE	MESSAGE	ATA	С	ISOLATION PROCEDURE
	SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV H (8WQ)	261715	1	261700 P 201 T 810 801
	SMOKE LAVATORY DET FAULT associated with FIRE - LAV SMOKE DET SMOKE DET	SDCU	SMOKE DET LAV H (8WQ)	261715	1	261700 P 201 T 810 801
R	SMOKE LAVATORY DET FAULT associated with STS-Inop System LAV DET	SDCU	WRG: CAN BUS/ SMK DET LAV X/DEU-B(FIN)	261000	1	261700 P 233 T 810 817
	SMOKE LAVATORY SMOKE associated with SMOKE AVNCS-odour and mist in the cabin and not fire					261500 P 206 T 810 804
	SMOKE LAVATORY SMOKE associated with AVIONICS SMOKE and SMOKE AVNCS-odour and mist in the cabin and not fire					261500 P 206 T 810 804
	SMOKE LAVATORY SMOKE associated with CARGO SMOKE and SMOKE AVNCS-odour and mist in the cabin and not fire					261500 P 206 T 810 804
	SMOKE LAVATORY SMOKE associated with AVIONICS SMOKE and CARGO SMOKE and SMOKE AVNCS-odour and mist in the cabin and not fire					261500 P 206 T 810 804

EFF :	ALL
SROS	

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TROUBLE SHOOTING MANUAL

WARNINGS/MALFUNCTIONS		FAULT ISOLATION			
	SOURCE	MESSAGE	АТА	С	
SMOKE LAVATORY SMOKE associated with FIRE - LAV SMOKE DET Smoke and/or oil smell in the cabin					261700 P 217 T 810 804

STS-Inop System

R

AFT CRG DET associated with Upper ECAM DU Warnings SMOKE AFT CRG DET FAULT	SDCU	SMK DET AFT LDCC (XWH) SMK DET AFT LDCC (YWH)	261615	1	261600 P 209 T 810 809
FWD CRG DET associated with Upper ECAM DU Warnings SMOKE FWD CRG DET FAULT	SDCU	SMK DET FWD LDCC (XWH) SMK DET FWD LDCC (YWH)	261615	1	261600 P 212 T 810 812
LAV DET associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	CIDS MID BUS M / DIR Y (FIN)	237300	1	261700 P 236 T 810 820
LAV DET associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	CIDS(102RH)-SDF2 BUS / CIDS(101RH)-SDF1	237334	1	261700 P 242 T 810 824
LAV DET associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	DEU-B(FIN)	237347	1	261700 P 235 T 810 819
LAV DET associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	SMK DET LAV X	261715	1	261700 P 230 T 810 815
LAV DET associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	WRG: CAN BUS/ SMK DET LAV X/DEU-B(FIN)	261000	1	261700 P 233 T 810 817

FF:	ALL
S	

26-ECAM

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TROUBLE SHOOTING MANUAL

WARNINGS/MALFUNCTIONS		FAULT ISOLATION		
WARNINGS/ MALFONCTIONS	SOURCE	RCE MESSAGE		C PROCEDURE
SDCU	SDCU	SMOKE DET 1WH FWD LDCC	261615	2 261600 P 201 T 810 801
SDCU	SDCU	SMOKE DET 10WH AFT LDCC	261615	2 261600 P 203 T 810 802
SDCU	SDCU	SMOKE DET 2WH FWD LDCC	261615	2 261600 P 201 T 810 801
SDCU	SDCU	SMOKE DET 3WH AFT LDCC	261615	2 261600 P 203 T 810 802
SDCU	SDCU	SMOKE DET 3WH FWD LDCC	261615	2 261600 P 201 T 810 801
SDCU	SDCU	SMOKE DET 4WH AFT LDCC	261615	2 261600 P 203 T 810 802
SDCU	SDCU	SMOKE DET 4WH FWD LDCC	261615	2 261600 P 201 T 810 801
SDCU	SDCU	SMOKE DET 5WH AFT LDCC	261615	2 261600 P 203 T 810 802
SDCU	SDCU	SMOKE DET 6WH AFT LDCC	261615	2 261600 P 203 T 810 802
SDCU	SDCU	SMOKE DET 7WH AFT LDCC	261615	2 261600 P 203 T 810 802
SDCU	SDCU	SMOKE DET 8WH AFT LDCC	261615	2 261600 P 203 T 810 802
SDCU	SDCU	SMOKE DET 9WH AFT LDCC	261615	2 261600 P 203 T 810 802
SMOKE DET	SDCU	CIDS(101RH)-SDF1	237334	1 261700 P 239
associated with Upper ECAM DU Warnings SMOKE LAV+CRG DET FAULT	SDCU	associated with CIDS(102RH)-SDF2	237334	Т 810 823 1

R R R

EFF: ALL

26-ECAM

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TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS		FAULT ISOLATION		
WARNINGS/ MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE

STS-Maintenance

R R

R R

R R

SDCU	T				261700 P 203 T 810 802
SDCU	SDCU	SDCU/SMOKE DET LOOP	261734	2	261700 P 223 T 810 807
SDCU	SDCU	SMOKE DET LOOP	261700	1	261700 P 203 T 810 802
SDCU	SDCU	SMOKE DET LOOP	261700	2	261700 P 203 T 810 802
SDCU	SDCU	SMOKE DET WIRING	261700	2	261700 P 219 T 810 805
SMOKE	SDCU	CHECK SDF1 BITE / CIDS (101RH)-SDF1	237334	2	261700 P 239 T 810 823
SMOKE	SDCU	CHECK SDF2 BITE / CIDS (102RH)-SDF2	237334	2	261700 P 239 T 810 823
SMOKE	SDCU	CIDS(101RH)-SDF1 BUS / CIDS(102RH)-SDF2	237334	2	261700 P 242 T 810 824
SMOKE	SDCU	CIDS(102RH)-SDF2 BUS / CIDS(101RH)-SDF1	237334	2	261700 P 242 T 810 824
SMOKE	SDCU	CIRCUIT BREAKER 14WH/ CAN BUS B	261000	2	261700 P 248 T 810 827
SMOKE	SDCU	CIRCUIT BREAKER 15WH/ CAN BUS A	261000	2	261700 P 248 T 810 827

EFF: ALL

26-ECAM

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TROUBLE SHOOTING MANUAL

FIRE PROTECTION - FAULT SYMPTOMS

WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES			FAULT ISOLATION	
WARRINGS, FIRE FOR FILEN	SOURCE	MESSAGE	ATA C		
EXT PWR Pnl (108VU)					
FIRE - APU FIRE APU FIRE lt on				262200 P 212 T 810 805	
FIRE Pnl (20VU)					
FIRE - APU AGENT p/bsw DISCH lt does not come on				262200 P 206 T 810 803	
FIRE - APU AGENT p/bsw DISCH lt on				262200 P 214 T 810 806	
FIRE - APU AGENT p/bsw SQUIB lt does not come on				262200 P 200 T 810 803	
FIRE - APU lower red p/bsw lt does not come on				262200 P 203 T 810 802	
FIRE - APU upper red p/bsw lt does not come on				262200 P 203 T 810 802	
MAINTENANCE Pol (50VU)	<u></u>			•	
FIRE - APU AUTO EXTING TEST p/bsw OK, it does not come on				262200 P 209 T 810 804	
FIRE - APU AUTO EXTING TEST p/bsw ON, it does not come on				262200 P 209 T 810 804	

EFF: ALL

R R

R R

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TROUBLE SHOOTING MANUAL

FIRE PROTECTION - FAULT SYMPTOMS

	WARNINGS/MALFUNCTIONS		FAULT ISOLATION			
	WARNINGS/ MALFORCTIONS	SOURCE	MESSAGE	ATA	С	
R	ENG FIRE DET-ENG1 FIRE legend on without ENG1 FIRE warning on ECAM associated with ENG FIRE DET-FIRE legend of ENG1 ANN on without ENG1 FIRE WARN on ECAM					261200 PA205 T 810 848
R	ENG FIRE DET-ENG2 FIRE legend on without ENG2 FIRE warning on ECAM associated with ENG FIRE DET-FIRE legend of ENG2 ANN on without ENG2 FIRE WARN on ECAM					261200 PA207 T 810 849
R	ENG FIRE DET-FIRE legend of ENG1 ANN on without ENG1 FIRE WARN on ECAM associated with ENG FIRE DET-ENG1 FIRE legend on without ENG1 FIRE warning on ECAM					261200 PA205 T 810 848
R	ENG FIRE DET-FIRE legend of ENG1 annunciator does not come on					261200 P 245 T 810 817
R	ENG FIRE DET-FIRE legend of ENG1 annunciator does not come on associated with ENG FIRE DET-Upper half of ENG1 FIRE legend does not come on					261200 P 249 T 810 819

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TROUBLE SHOOTING MANUAL

	LIADNINGS / MAI FUNCTIONS	CFDS FAULT MESSAGES				FAULT ISOLATION
	WARNINGS/MALFONCTIONS	SOURCE	MESSAGE	ATA	С	!!
R	ENG FIRE DET-FIRE legend of ENG1 annunciator does not come on associated with ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test and ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 1 P/BSW does not come on					261200 P 269 T 810 827
R	ENG FIRE DET-FIRE legend of ENG1 annunciator does not come on associated with ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test					261200 P 269 T 810 827
R	ENG FIRE DET-FIRE legend of ENG2 ANN on without ENG2 FIRE WARN on ECAM associated with ENG FIRE DET-ENG2 FIRE legend on without ENG2 FIRE warning on ECAM					261200 PA207 T 810 849
R	ENG FIRE DET-FIRE legend of ENG2 annunciator does not come on					261200 P 247 T 810 818
R	ENG FIRE DET-FIRE legend of ENG2 annunciator does not come on associated with ENG FIRE DET-Lower half of ENG2 FIRE legend does not come on					261200 P 250 T 810 820

EFF :	ALL	
SROS		Printed in France

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Feb 01/04

TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES				FAULT ISOLATION
	WARNINGS/ MALI ONC 110NS	SOURCE	MESSAGE	ATA	С	! :
R	ENG FIRE DET-FIRE legend of ENG2 annunciator does not come on associated with ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test and ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 2 P/BSW does not come on					261200 P 273 T 810 829
R	ENG FIRE DET-FIRE legend of ENG2 annunciator does not come on associated with ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test					261200 P 273 T 810 829
R	ENG FIRE DET-Lower half of ENG1 FIRE legend does not come on					261200 P 239 T 810 814
R	ENG FIRE DET-Lower half of ENG2 FIRE legend does not come on					261200 P 243 T 810 816
R	ENG FIRE DET-Lower half of ENG2 FIRE legend does not come on associated with ENG FIRE DET-FIRE legend of ENG2 annunciator does not come on					261200 P 250 T 810 820

TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS		FAULT ISOLATION			
	WARNINGS/ MALFONCTIONS	SOURCE	MESSAGE	АТА	С	!
R	ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test associated with ENG FIRE DET-FIRE legend of ENG1 annunciator does not come on and ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 1 P/BSW does not come on					261200 P 269 T 810 827
R	ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test associated with ENG FIRE DET-FIRE legend of ENG1 annunciator does not come on					261200 P 269 T 810 827
R	ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test associated with ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 2 P/BSW does not come on					261200 P 271 T 810 828
R	ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test					261200 P 271 T 810 828
R	ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test associated with ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 1 P/BSW does not come on	FDU 1	CHECK FDU ENG1 FIRE TEST PB SW/FDU ENG1	261200	1	261200 P 297 T 810 844

EFF: AL

TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES				FAULT ISOLATION
	WARNINGS/MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE
R	ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test associated with ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 2 P/BSW does not come on	FDU 1	CHECK FDU ENG1 FIRE TEST PB SW/FDU ENG1	261200	1	261200 P 299 T 810 845
R	ENG FIRE DET-No ENG1 FIRE warning on ECAM when ENG1 FIRE legend on					261200 P 233 T 810 809
R	ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test associated with ENG FIRE DET-FIRE legend of ENG2 annunciator does not come on and ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 2 P/BSW does not come on					261200 P 273 T 810 829
R	ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test associated with ENG FIRE DET-FIRE legend of ENG2 annunciator does not come on					261200 P 273 T 810 829
R	ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test associated with ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 1 P/BSW does not come on					261200 P 275 T 810 830
R	ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test					261200 P 275 T 810 830

EFF :	ALL
SROS	

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TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS		FAULT ISOLATION		
	WARNINGS/HALFORGTIONS	SOURCE	MESSAGE	ATA C	!
R	ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test associated with ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 1 P/BSW does not come on	FDU 2	CHECK FDU ENG2 FIRE TEST PB SW/FDU ENG2	261200 1	Z61200 PA201 T 810 846
R	ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test associated with ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 2 P/BSW does not come on	FDU 2	CHECK FDU ENG2 FIRE TEST PB SW/FDU ENG2	261200 1	T 810 847
R	ENG FIRE DET-No ENG2 FIRE warning on ECAM when ENG2 FIRE legend on				261200 P 235 T 810 811
R	ENG FIRE DET-Upper half of ENG1 FIRE legend does not come on				261200 P 237 T 810 813
R	ENG FIRE DET-Upper half of ENG1 FIRE legend does not come on associated with ENG FIRE DET-FIRE legend of ENG1 annunciator does not come on				261200 P 249 T 810 819
R	ENG FIRE DET-Upper half of ENG2 FIRE legend does not come on				261200 P 241 T 810 815

EFF :	ALL	
SROS		Printed in France

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TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS			FAULT ISOLATION		
	WARNINGS/MALFONCTIONS	SOURCE	MESSAGE	ATA	С	!
R	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 1 P/BSW does not come on associated with ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test and ENG FIRE DET-FIRE legend of ENG1 annunciator does not come on					261200 P 269 T 810 827
	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 1 P/BSW does not come on associated with ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 1 P/BSW does not come on					262100 P 215 T 810 807
	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 1 P/BSW does not come on					262100 P 223 T 810 811
R	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 1 P/BSW does not come on associated with ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test	FDU 1	CHECK FDU ENG1 FIRE TEST PB SW/FDU ENG1	261200	1	261200 P 297 T 810 844
	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 1 P/BSW is on					262100 P 231 T 810 815
R	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 2 P/BSW does not come on associated with ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test					261200 P 271 T 810 828

TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS		FAULT ISOLATION				
	WARNINGS/MALFONCTIONS	SOURCE	MESSAGE	ATA	С		
	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 2 P/BSW does not come on associated with ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 2 P/BSW does not come on					262100 P 217 T 810 808	
	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 2 P/BSW does not come on					262100 P 225 T 810 812	
R	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 2 P/BSW does not come on associated with ENG FIRE DET-No ENG1 FIRE warning on ECAM during the fire test	FDU 1	CHECK FDU ENG1 FIRE TEST PB SW/FDU ENG1	261200	1	261200 P 299 T 810 845	
	ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 2 P/BSW is on					262100 P 233 T 810 816	
R	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 1 P/BSW does not come on associated with ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test					261200 P 275 T 810 830	
	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 1 P/BSW does not come on associated with ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 1 P/BSW does not come on					262100 P 219 T 810 809	
	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 1 P/BSW does not come on					262100 P 227 T 810 813	

TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS		FAULT			
		SOURCE	MESSAGE	ATA	С	ISOLATION PROCEDURE
R	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 1 P/BSW does not come on associated with ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test	FDU 2	CHECK FDU ENG2 FIRE TEST PB SW/FDU ENG2	261200	1	261200 PA201 T 810 846
	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 1 P/BSW is on					262100 P 235 T 810 817
R	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 2 P/BSW does not come on associated with ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test and ENG FIRE DET-FIRE legend of ENG2 annunciator does not come on					261200 P 273 T 810 829
	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 2 P/BSW does not come on associated with ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 2 P/BSW does not come on					262100 P 221 T 810 810
	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 2 P/BSW does not come on					262100 P 229 T 810 814
R	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 2 P/BSW does not come on associated with ENG FIRE DET-No ENG2 FIRE warning on ECAM during the fire test	FDU 2	CHECK FDU ENG2 FIRE TEST PB SW/FDU ENG2	261200	1	261200 PA203 T 810 847

FF:	ALL	
SROS		
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TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES				FAULT ISOLATION	
		SOURCE	MESSAGE	ATA	С	!!	
R	ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 2 P/BSW is on					262100 P 237 T 810 818	
	ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 1 P/BSW does not come on					262100 P 201 T 810 801	
R	ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 1 P/BSW does not come on associated with ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 1 P/BSW does not come on					262100 P 213 T 810 805	
R	ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 1 P/BSW does not come on associated with ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 1 P/BSW does not come on					262100 P 215 T 810 807	
R	ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 2 P/BSW does not come on					262100 P 204 T 810 802	
R	ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 2 P/BSW does not come on associated with ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 2 P/BSW does not come on					262100 P 214 T 810 806	
R	ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 2 P/BSW does not come on associated with ENG FIRE EXTING-DISCH legend of ENG 1 AGENT 2 P/BSW does not come on					262100 P 217 T 810 808	

EFF :	ALL		
SROS			

TROUBLE SHOOTING MANUAL

WARNINGS/MALFUNCTIONS		CFDS FAULT MESSAGES	 S		FAULT ISOLATION	
WARNINGS/ MALFUNCTIONS	SOURCE	MESSAGE	ATA	С		
ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 1 P/BSW does not come on					262100 P 207 T 810 803	
ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 1 P/BSW does not come on associated with ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 1 P/BSW does not come on					262100 P 213 T 810 805	
ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 1 P/BSW does not come on associated with ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 1 P/BSW does not come on					262100 P 219 T 810 809	
ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 2 P/BSW does not come on					262100 P 210 T 810 804	
ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 2 P/BSW does not come on associated with ENG FIRE EXTING-SQUIB legend of ENG 1 AGENT 2 P/BSW does not come on					262100 P 214 T 810 806	
ENG FIRE EXTING-SQUIB legend of ENG 2 AGENT 2 P/BSW does not come on associated with ENG FIRE EXTING-DISCH legend of ENG 2 AGENT 2 P/BSW does not come on					262100 P 221 T 810 810	
FIRE - APU FIRE DET - Loss of columns 1 and 3 of APU FIRE P/BSW legend					261300 P 215 T 810 808	

EFF :	ALL	_	 	
S				

R

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TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES			FAULT ISOLATION		
	WARNINGS/MALFUNCTIONS	SOURCE	MESSAGE	АТА	С	PROCEDURE	
R	FIRE - APU FIRE DET - Loss of columns 2 and 4 of APU FIRE P/BSW legend					261300 P 217 T 810 809	
R	FIRE - CARGO SMOKE DET Indicator light does not come on					261600 P 207 T 810 808	
	FIRE - LAV SMOKE DET Smoke and/or oil smell in the cabin associated with Upper ECAM DU Warnings CARGO SMOKE					261600 P 205 Т 810 805	
	FIRE - LAV SMOKE DET Smoke and/or oil smell in the cabin associated with Upper ECAM DU Warnings SMOKE FWD CARGO SMOKE					261600 P 205 T 810 805	
	FIRE - LAV SMOKE DET Smoke and/or oil smell in the cabin associated with Upper ECAM DU Warnings SMOKE AFT CARGO SMOKE					261600 P 205 T 810 805	
	FIRE - LAV SMOKE DET Smoke and/or oil smell in the cabin associated with Upper ECAM DU Warnings SMOKE LAVATORY SMOKE					261700 P 217 T 810 804	
	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV A			 	 	261700 P 201 T 810 801	
	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV A associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV A (1WQ)	261715	1	261700 P 201 T 810 801	

EFF :	ALL
SROS	

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TROUBLE SHOOTING MANUAL

	WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES				FAULT ISOLATION	
	WARNINGS/MALFONCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV B					261700 P 201 T 810 801	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV B associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV B (2WQ)	261715	1	261700 P 201 T 810 801	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV D					261700 P 201 T 810 801	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV D associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV D (4WQ)	261715	1	261700 P 201 T 810 801	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV E					261700 P 201 T 810 801	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV E associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV E (5WQ)	261715	1	261700 P 201 T 810 801	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV F					261700 P 201 T 810 801	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV F associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV F (6WQ)	261715	1	261700 P 201 T 810 801	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV H					261700 P 201 T 810 801	
R R	FIRE - LAV SMOKE DET SMOKE DET FAIL LAV H associated with Upper ECAM DU Warnings SMOKE LAVATORY DET FAULT	SDCU	SMOKE DET LAV H (8WQ)	261715	1	261700 P 201 T 810 801	

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TROUBLE SHOOTING MANUAL

WARNINGS/MALFUNCTIONS	 	CFDS FAULT MESSAGES	 S		FAULT ISOLATION
WARNINGS/MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE
SMOKE AVNCS-No smoke warnings during the test procedure					261500 P 201 T 810 801
SMOKE AVNCS-odour and mist in the cabin and not fire associated with Upper ECAM DU Warnings AVIONICS SMOKE					261500 P 206 T 810 804
SMOKE AVNCS-odour and mist in the cabin and not fire associated with Upper ECAM DU Warnings SMOKE					261500 P 206 T 810 804
SMOKE AVNCS-odour and mist in the cabin and not fire associated with Upper ECAM DU Warnings CARGO SMOKE					261500 P 206 T 810 804
SMOKE AVNCS-odour and mist in the cabin and not fire associated with Upper ECAM DU Warnings AVIONICS SMOKE and SMOKE LAVATORY SMOKE					261500 P 206 T 810 804
SMOKE AVNCS-odour and mist in the cabin and not fire associated with Upper ECAM DU Warnings AVIONICS SMOKE and CARGO SMOKE					261500 P 206 T 810 804

EFF: ALL SROS **26-OBSV**

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@A319/A320/A321

TROUBLE SHOOTING MANUAL

WARNINGS/MALFUNCTIONS		CFDS FAULT MESS	AGES		FAULT ISOLATION	
WARNINGS/ MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE	
SMOKE AVNCS-odour and mist in the cabin and not fire associated with Upper ECAM DU Warnings SMOKE LAVATORY SMOKE and CARGO SMOKE					261500 P 206 T 810 804	
SMOKE AVNCS-odour and mist in the cabin and not fire associated with Upper ECAM DU Warnings AVIONICS SMOKE and SMOKE LAVATORY SMOKE and CARGO SMOKE					261500 P 206 T 810 804	
SMOKE AVNCS-Smoke warnings without smoke confirmation					261500 P 205 T 810 803	
SMOKE AVNCS-Smoke in the cockpit without smoke warnings					261500 P 201 T 810 801	
SMOKE AVNCS-SMOKE legend of GEN 1 LINE P/BSW not on with ECAM warning					261500 P 203 T 810 802	
SMOKE-LDCC FIRE EXTING manual discharge of BTL1					262300 P 206 T 810 803	
SMOKE-LDCC FIRE EXTING manual discharge of BTL2					262300 P 211 T 810 805	

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FIRE PROTECTION - FAULT SYMPTOMS

	WARNINGS/MALFUNCTIONS		FAULT ISOLATION			
	WARNINGS/MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	!
R		AEVC	SMOKE DETECTOR 1WA	261515	3	212600 P 234 T 810 811
		APU	FIRE EMER STOP RLY (6WF)	262000	2	262200 P 217 T 810 807
		APU	FIRE EMERG STOP RELAY	262200	3	262200 P 217 T 810 807
		APU	FIRE EMERG STOP RLY 6WF	262000	2	262200 P 217 T 810 807
		APU	FIRE EMERG STOP RLY 6WF	262200	3	262200 P 217 T 810 807
		CFDS	NO FDU APU DATA associated with	261334	2	261300 P 207 T 810 804
		FDU APU		240000	3	
		CFDS	NO FDU APU DATA	261334	2	313200 P 215 T 810 816
		CFDS	NO FDU1 DATA	261234	2	313200 P 211 T 810 814
		CFDS	NO FDU2 DATA	261234	2	313200 P 213 T 810 815
		CFDS	NO SDCU DATA	261734	2	313200 P 209 T 810 813
R		CIDS 1	CIRCUIT BREAKER 14WH - CAN BUS B associated with	261700	2	237300 PB260 T 810 950
		CIDS 2	CIRCUIT BREAKER 14WH - CAN BUS B	261700	2	
		CIDS 1	and CIRCUIT BREAKER 15WH - CAN BUS A	261700	2	
		CIDS 2	and CIRCUIT BREAKER 15WH - CAN BUS A	261700	2	

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	WARNINGS/MALFUNCTIONS		CFDS FAULT MESSAGES			
	WARNINGS/ MALFORCTIONS	SOURCE	MESSAGE	ATA	С	ISOLATION PROCEDURE
R		CIDS 1	CIRCUIT BREAKER 15WH -	261700	2	237300 PB260 T 810 950
		CIDS 1	associated with CIRCUIT BREAKER 14WH - CAN BUS B	261700	2	
		CIDS 2	and CIRCUIT BREAKER 14WH - CAN BUS B	261700	2	
		CIDS 2	and CIRCUIT BREAKER 15WH - CAN BUS A	261700	2	
R		CIDS 2	CIRCUIT BREAKER 14WH - CAN BUS B associated with	261700	2	237300 PB260 T 810 950
		CIDS 1	CIRCUIT BREAKER 14WH - CAN BUS B	261700	2	
		CIDS 1	and CIRCUIT BREAKER 15WH - CAN BUS A	261700	2	
		CIDS 2	and CIRCUIT BREAKER 15WH - CAN BUS A	261700	2	
R		CIDS 2	CIRCUIT BREAKER 15WH -	261700	2	237300 PB260 T 810 950
		CIDS 1	associated with CIRCUIT BREAKER 14WH - CAN BUS B	261700	2	
		CIDS 2	and CIRCUIT BREAKER 14WH - CAN BUS B	261700	2	
		CIDS 1	and CIRCUIT BREAKER 15WH - CAN BUS A	261700	2	
		ECAM 1	FWC1 : NO DATA FROM SDCU1	261734	2	315300 P 290 T 810 890
		ECAM 1	FWC1 : NO DATA FROM SDCU2	261734	2	315300 P 291 T 810 891
		ECAM 1	FWC1: NO DATA FROM CIDS-SDF1	261734	2	315300 P 290 T 810 890

EFF: ALL

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WARNINGS/MALFUNCTIONS		CFDS FAULT MESSAGES	 S	FAULT ISOLATION	
WARNINGS/ MALFONCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE
	ECAM 1	FWC1: NO DATA FROM CIDS-SDF2	261734	2	315300 P 291 T 810 891
	ECAM 1	FWC2 : NO DATA FROM SDCU1	261734	2	315300 P 292 T 810 892
	ECAM 1	FWC2 : NO DATA FROM SDCU2	261734	2	315300 P 293 T 810 893
	ECAM 1	FWC2: NO DATA FROM CIDS-SDF1	261734	2	315300 P 292 T 810 892
	ECAM 1	FWC2: NO DATA FROM CIDS-SDF2	261734	2	315300 P 293 T 810 893
	ECAM 2	FWC1 : NO DATA FROM SDCU1	261734	2	315300 P 290 T 810 890
	ECAM 2	FWC1 : NO DATA FROM SDCU2	261734	2	315300 P 291 T 810 891
	ECAM 2	FWC1: NO DATA FROM CIDS-SDF1	261734	2	315300 P 290 T 810 890
	ECAM 2	FWC1: NO DATA FROM CIDS-SDF2	261734	2	315300 P 291 T 810 891
	ECAM 2	FWC2 : NO DATA FROM SDCU1	261734	2	315300 P 292 T 810 892
	ECAM 2	FWC2 : NO DATA FROM SDCU2	261734	2	315300 P 293 T 810 893
	ECAM 2	FWC2: NO DATA FROM CIDS-SDF1	261734	2	315300 P 292 T 810 892
	ECAM 2	FWC2: NO DATA FROM CIDS-SDF2	261734	2	315300 P 293 T 810 893
	FDU APU	CHECK CFDIU/ FDU APU INTFC	261300	3	261300 P 223 T 810 812
	FDU APU	CHECK FDU APU LGCIU INTFC	261300	3	261300 P 210 T 810 805

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HARNINGS (MALIFINGTIONS		CFDS FAULT MESSAGES			FAULT
WARNINGS/MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	ISOLATION PROCEDURE
	FDU APU	CHECK FDU APU LOOP A WARN CKT	261300	3	261300 P 211 T 810 806
	FDU APU	CHECK FDU APU LOOP B WARN CKT	261300	3	261300 P 213 T 810 807
	FDU APU	CHECK FDU APU SUPPLY associated with	261300	1	 261300 P 207 T 810 804
	FDU APU	GND CHECK FDU APU LOOP A/B NO DATA FROM FDU APU	261300	1	!
	FDU APU	GND CHECK FDU APU LOOP A/B NO DATA FROM FDU APU associated with	261300	1	261300 P 207 T 810 804
	FDU APU	CHECK FDU APU SUPPLY	261300	1	<u> </u>
	FDU APU	GND FDU APU	261334	3	261300 P 201 T 810 801
	FDU 1	CHECK FDU ENG1 FIRE A WARN CKT	261200	1	261200 P 233 T 810 809
	FDU 1	CHECK FDU ENG1 FIRE B WARN CKT	261200	1	261200 P 234 T 810 810
	FDU 1	CHECK FDU ENG1 LGCIU	261200	3	261200 P 251 T 810 821
	FDU 1	CHECK FDU ENG1 LOOP A WARN CKT	261200	1	261200 P 277 T 810 831
	FDU 1	CHECK FDU ENG1 LOOP B WARN CKT	261200	!	261200 P 278 T 810 832
	FDU 1	CHECK FDU ENG1 PIN PROG	261200	3	261200 P 281 T 810 835
	FDU 1	CHECK FDU PIN PROG	261000	3	261200 P 283 T 810 837
	FDU 1	FDU ENG1	261234	1	261200 P 201 T 810 801
	FDU 2	CHECK FDU ENG2 FIRE A WARN CKT	261200	1	261200 P 235 T 810 811

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WARNINGS/MALFUNCTIONS		CFDS FAULT MESSAGES	 S		FAULT ISOLATION
WARNINGS/ MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE
	FDU 2	CHECK FDU ENG2 FIRE B WARN CKT	261200	1	261200 P 236 T 810 812
	FDU 2	CHECK FDU ENG2 LGCIU	261200	3	261200 P 253 T 810 822
	FDU 2	CHECK FDU ENG2 LOOP A WARN CKT	261200	1	261200 P 279 T 810 833
	FDU 2	CHECK FDU ENG2 LOOP B WARN CKT	261200	1	261200 P 280 T 810 834
	FDU 2	CHECK FDU ENG2 PIN PROG	261200	3	261200 P 282 T 810 836
	FDU 2	FDU ENG2	261234	1	261200 P 202 T 810 802
	SDCU	CRG FIRE BTL 1 AFT SQUIB	261715	1	262300 P 201 T 810 801
	SDCU	CRG FIRE BTL 1 FWD SQUIB	262341	1	262300 P 213 T 810 806
	SDCU	CRG FIRE BTL 1 LO PR	261715	1	262300 P 206 T 810 803
	SDCU	CRG FIRE BTL 2 AFT SQUIB	261715	1	262300 P 204 T 810 802
	SDCU	CRG FIRE BTL 2 FWD SQUIB	261715	1	262300 P 209 T 810 804
	SDCU	CRG FIRE BTL 2 LO PR	262341	1	262300 P 211 T 810 805
	SDCU	SDCU CHANNEL 1 (10WQ)	261734	1	261700 P 226 T 810 813
	SDCU	SDCU CHANNEL 2 (10WQ)	261734	1	261700 P 228 T 810 814
	SDCU	SMK DET AFT LDCC (XWH)	261615	2	261600 P 210 T 810 810

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	WARNINGS/MALFUNCTIONS	CFDS FAULT MESSAGES				FAULT
	WARNINGS/MALFONCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE
		SDCU	SMK DET AFT LDCC (XWH) CONTAMINATION	261615	3	261600 P 211 T 810 811
ļ		SDCU	SMK DET FWD LDCC (XWH)	261615	2	261600 P 213 T 810 813
		SDCU	SMK DET FWD LDCC (XWH) CONTAMINATION	261615	3	261600 P 214 T 810 814
R		SDCU	SMK DET LAV X CONTAMINATION	261715	3	261700 P 232 T 810 816
		SDCU	SMOKE DET LAV A (1WQ)	261715	1	261700 P 201 T 810 801
		SDCU	SMOKE DET LAV B (2WQ)	261715	1	261700 P 201 T 810 801
		SDCU	SMOKE DET LAV D (4WQ)	261715	1	261700 P 201 T 810 801
		SDCU	SMOKE DET LAV E (5WQ)	261715	1	261700 P 201 T 810 801
		SDCU	SMOKE DET LAV F (6WQ)	261715	1	261700 P 201 T 810 801
		SDCU	SMOKE DET LAV H (8WQ)	261715	1	261700 P 201 T 810 801
		SDCU	SMOKE DET WIRING	261600	2	261700 P 219 T 810 805
		SDCU	SMOKE DET WIRING	261700	2	261700 P 219 T 810 805
		SDCU	SMOKE DET 1WH FWD LDCC	261615	2	261600 P 201 T 810 801
		SDCU	SMOKE DET 10WH AFT LDCC	261615	2	261600 P 203 T 810 802
		SDCU	SMOKE DET 2WH FWD LDCC	261615	2	261600 P 201 T 810 801

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WARNINGS/MALFUNCTIONS		CFDS FAULT MESSAGES	 S		FAULT ISOLATION
WARNINGS/ MALFUNCTIONS	SOURCE	MESSAGE	ATA	С	PROCEDURE
	SDCU	SMOKE DET 3WH AFT LDCC	261615	2	261600 P 203 T 810 802
	SDCU	SMOKE DET 3WH FWD LDCC	261615	2	261600 P 201 T 810 801
	SDCU	SMOKE DET 4WH AFT LDCC	261615	2	261600 P 203 T 810 802
	SDCU	SMOKE DET 4WH FWD LDCC	261615	2	261600 P 201 T 810 801
	SDCU	SMOKE DET 5WH AFT LDCC	261615	2	261600 P 203 T 810 802
	SDCU	SMOKE DET 6WH AFT LDCC	261615	2	261600 P 203 T 810 802
	SDCU	SMOKE DET 7WH AFT LDCC	261615	2	261600 P 203 T 810 802
	SDCU	SMOKE DET 8WH AFT LDCC	261615	2	261600 P 203 T 810 802
	SDCU	SMOKE DET 9WH AFT LDCC	261615	2	261600 P 203 T 810 802
	SDCU	WRG: CAN BUS X	261000	2	261600 P 217 T 810 816
	SDCU	WRG: CAN BUS X / SMK DET AFT LDCC (XWH)	261000	2	261600 P 221 T 810 820
	SDCU	WRG: CAN BUS X/ SMK DET FWD LDCC (XWH)	261000	2	261600 P 215 T 810 815

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ENGINE FIRE AND OVERHEAT DETECTION - FAULT ISOLATION PROCEDURES

TASK 26-12-00-810-801

Failure of the Engine 1 FDU

- 1. Possible Causes
 - FDU-ENG1 (2WD1)
- 2. Job Set-up Information
 - A. Referenced Information

	REFERENCE		
			DESIGNATION
R R	AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
R	AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
R	AMM	26-12-34-400-001	Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)

- 3. Fault Confirmation
 - A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).
- 4. Fault Isolation
 - A. If the test gives the maintenance message FDU ENG 1:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).

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TASK 26-12-00-810-802

Failure of the Engine 2 FDU

- 1. Possible Causes
 - FDU-ENG2 (2WD2)
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE	DESIGNATION
R R	AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
R	AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
R	AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>

- 3. Fault Confirmation
 - A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).
- 4. Fault Isolation
 - A. If the test gives the maintenance message FDU ENG 2:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).

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TASK 26-12-00-810-803

Loss of the Detection by the Engine 1 Loop A

1. Possible Causes

- DET-FIRE, ENG 1 PYLON LOOP A (3WD1)
- FDU-ENG1 (2WD1)
- DET-FIRE, FAN LOOP A (4000WD1)
- DET-FIRE, CORE LOOP A (4001WD1)
- wiring

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
АММ	26-12-00-200-003	Visual Inspection of the Engine Fire Detection System
AMM		Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-15-000-042	Removal of the Fan Fire Detectors (4000WD1,4000WD2)
AMM	26-12-15-400-042	<pre>Installation of the Fan Fire Detectors (4000WD1,4000WD2)</pre>
AMM	26-12-16-000-001	Removal of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)
AMM	26-12-16-400-001	<pre>Installation of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)</pre>
AMM	26-12-17-000-041	Removal of the Core Fire Detectors (4001WD1, 4001WD2)
AMM	26-12-17-400-041	<pre>Installation of the Core Fire Detectors (4001WD1, 4001WD2)</pre>
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
AMM	78-36-51-400-040	Installation of the Thrust Reverser Half Door Opening Actuator
ASM	26-12/01	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

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4. Fault Isolation

- A. If the test gives the maintenance message CHECK ENG 1 FIRE LOOP A:
 - do a visual inspection of the three loop A fire detectors (Ref. AMM TASK 26-12-00-200-003).
 - (1) If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001)
 - for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042)
 - . for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - (2) If there is no visual damage, do a visual inspection of the engine 1 near the three fire detectors.
 Make sure that:
 - (a) There is no fuel or hydraulic leakage.
 - (b) There is no air leakage at the connections of the bleed air duct.
 - (c) The electrical cables are correctly connected.
 - (d) The bend in the flex hose is outboard and away from the engine (Ref. AMM TASK 78-36-51-400-040).
 - (3) If there is no visual damage, do a visual inspection for retention or worn contact of each pin of the terminal block 450VT1. If necessary, replace the terminal block.
 - (4) If there is no visual damage, swap the pins that follow:
 - the pins B and C of the terminal block 450VT1 section 1 with the pins C and A of the terminal block 450VT1 section 2.
 - (a) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP A again:
 - swap back the pins B and C of the terminal block 450VT1 section 1 with the pins C and A of the terminal block 450VT1 section 2.
 - repair the wiring from the terminal block 450VT1 to the engine 1 Fire Detection Unit (FDU) (2WD1).
 - (b) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP B:
 - swap back the pins B and C of the terminal block 450VT1 section 1 with the pins C and A of the terminal block 450VT1 section 2.
 - 1 Swap the pins that follow:
 - the pins of the terminal block 450VT1 section 1 of the engine 1 pylon loop A fire detector (3WD1) with the pins of

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the terminal block 450VT1 section 2 of the engine 1 pylon loop B fire detector (4WD1).

- R R
- (c) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP A again:
 - swap back the pins of the fire detector (3WD1) with the pins of the fire detector (4WD1).
 - do a check and if necessary, repair the wiring from the terminal block 450VT1 section 1 to the fire detector (3WD1) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, ENG 1 PYLON LOOP A (3WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001).

- R R
- (d) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP B:
 - swap back the pins of the fire detector (3WD1) with the pins of the fire detector (4WD1).
- (e) If the fault continues, swap the pins that follow:
 - the pins of the terminal block 450VT1 section 1 of the core loop A fire detector (4001WD1)
 - with the pins of the terminal block 450VT1 section 2 of the core loop B fire detector (4001WD2).

- R R
- (f) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP A again:
 - swap back the pins of the fire detector (4001WD1) with the pins of the fire detector (4001WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT1 section 1 to the fire detector (4001WD1) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).

- R R
- (g) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP R.
 - swap back the pins of the fire detector (4001WD1) with the pins of the fire detector (4001WD2).
- (h) If the fault continues, swap the pins that follow:
 - the pins of the terminal block 450VT1 section 1 of the fan loop
 A fire detector (4000WD1)
 - with the pins of the terminal block 450VT1 section 2 of the fan loop B fire detector (4000WD2).

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- (i) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP A again:
 - swap back the pins of the fire detector (4000WD1) with the pins of the fire detector (4000WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT1 section 1 to the fire detector (4000WD1) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042).

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- (j) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP B:
 - swap back the pins of the fire detector (4000WD1) with the pins of the fire detector (4000WD2).
- (k) If the fault continues:
 - disconnect the connector 2WD1-A from the engine 1 FDU (2WD1)
 - on the connector, on the wiring side, make sure that the equivalent resistance value between pins J and K is between 1425 ohms and 1575 ohms.
- (l) If the equivalent resistance value is not correct and is: between 2137 ohms and 2363 ohms: there is one defective detector between 4275 ohms and 4725 ohms: there are two defective detectors
 - infinite: there is either three defective detectors or a defective wiring.
 - disconnect the electrical harness from the three loop A fire detectors
 - on the responder of each detector, make sure that the resistance value is between 4275 ohms and 4725 ohms:

 between pins A and D for the engine 1 pylon loop A fire detector (3WD1) and the fan loop A fire detector (4000WD1),
 between pins A and C for the core loop A fire detector
 - (4001WD1).
 - 1 If the resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001)
 - for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042)
 - for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - connect the electrical connector 2WD1-A to the engine 1 FDU.
 - 2 If the resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP A) from the engine 1 FDU (2WD1) to the three loop A fire detectors (Ref. ASM 26-12/01).

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- R (m) If the equivalent resistance value is correct:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - 1 If the fault continues:
 - disconnect the electrical harness from the three loop A fire detectors
 - on the responder of each detector, make sure that the insulation resistance value is higher than 20 Megohms:
 between pin A and the responder metal casing and between pin D and the responder metal casing for the engine 1 pylon loop A fire detector (3WD1) and the fan loop A fire detector (4000WD1).
 - . between pin A and the responder metal casing and between pin C and the responder metal casing for the core loop A fire detector (4001WD1).
 - a If the insulation resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001) for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042) for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - connect the electrical connector 2WD1-A to the engine 1
 FDU.
 - b If the insulation resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP A) from the engine 1 FDU (2WD1) to the three loop A fire detectors (Ref. ASM 26-12/01).
 - B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-804

Loss of the Detection by the Engine 1 Loop B

1. Possible Causes

- DET-FIRE, ENG 1 PYLON LOOP B (4WD1)
- FDU-ENG1 (2WD1)
- DET-FIRE, FAN LOOP B (4000WD2)
- DET-FIRE, CORE LOOP B (4001WD2)
- wiring

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-00-200-003	Visual Inspection of the Engine Fire Detection System	
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)	
AMM	26-12-15-000-042	Removal of the Fan Fire Detectors (4000WD1,4000WD2)	
AMM	26-12-15-400-042	Installation of the Fan Fire Detectors (4000WD1,4000WD2)	
AMM	26-12-16-000-001	Removal of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)	
AMM	26-12-16-400-001	<pre>Installation of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)</pre>	
AMM	26-12-17-000-041	Removal of the Core Fire Detectors (4001WD1, 4001WD2)	
AMM	26-12-17-400-041	Installation of the Core Fire Detectors (4001WD1, 4001WD2)	
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)	
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>	
AMM	78-36-51-400-040	Installation of the Thrust Reverser Half Door Opening Actuator	
ASM	26-12/01		

3. Fault Confirmation

A. Test

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> (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

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4. Fault Isolation

- A. If the test gives the maintenance message CHECK ENG 1 FIRE LOOP B:
 - do a visual inspection of the three loop B fire detectors (Ref. AMM TASK 26-12-00-200-003).
 - (1) If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - for DET-FIRE, ENG 1 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001)
 - for DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042)
 - for DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - (2) If there is no visual damage, do a visual inspection of the engine 1 near the three fire detectors.
 Make sure that:
 - (a) There is no fuel or hydraulic leakage.
 - (b) There is no air leakage at the connections of the bleed air duct.
 - (c) The electrical cables are correctly connected.
 - (d) The bend in the flex hose is outboard and away from the engine (Ref. AMM TASK 78-36-51-400-040).
 - (3) If there is no visual damage, do a visual inspection for retention or worn contact of each pin of the terminal block 450VT1. If necessary, replace the terminal block.
 - (4) If there is no visual damage, swap the pins that follow:
 - the pins B and C of the terminal block 450VT1 section 1 with the pins C and A of the terminal block 450VT1 section 2.
 - (a) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP B again:
 - swap back the pins B and C of the terminal block 450VT1 section 1 with the pins C and A of the terminal block 450VT1 section 2.
 - repair the wiring from the terminal block 450VT1 to the engine 1 Fire Detection Unit (FDU) (2WD1).
 - (b) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP A:
 - swap back the pins B and C of the terminal block 450VT1 section 1 with the pins C and A of the terminal block 450VT1 section 2.
 - 1 Swap the pins that follow:
 - the pins of the terminal block 450VT1 section 1 of the engine 1 pylon loop A fire detector (3WD1) with the pins of

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the terminal block 450VT1 section 2 of the engine 1 pylon loop B fire detector (4WD1).

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- (c) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP B again:
 - swap back the pins of the fire detector (3WD1) with the pins of the fire detector (4WD1).
 - do a check and if necessary, repair the wiring from the terminal block 450VT1 he section 2 to the fire detector (4WD1) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, ENG 1 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001).

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- (d) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP A:
 - swap back the pins of the fire detector (3WD1) with the pins of the fire detector (4WD1).
- (e) If the fault continues, swap the pins that follow:
 - the pins of the terminal block 450VT1 section 1 of the core loop A fire detector (4001WD1)
 - with the pins of the terminal block 450VT1 section 2 of the core loop B fire detector (4001WD2).

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- (f) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP B again:
 - swap back the pins of the fire detector (4001WD1) with the pins of the fire detector (4001WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT1 section 2 to the fire detector (4001WD2) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).

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- (g) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP $_{\Delta}$ -
 - swap back the pins of the fire detector (4001WD1) with the pins of the fire detector (4001WD2).
- (h) If the fault continues, swap the pins that follow:
 - the pins of the terminal block 450VT1 section 1 of the fan loop
 A fire detector (4000WD1)
 - with the pins of the terminal block 450VT1 section 2 of the fan loop B fire detector (4000WD2).

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- (i) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP B again:
 - swap back the pins of the fire detector (4000WD1) with the pins of the fire detector (4000WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT1 section 2 to the fire detector (4000WD2) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042).

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- (j) If the test gives the maintenance message CHECK ENG 1 FIRE LOOP A:
 - swap back the pins of the fire detector (4000WD1) with the pins of the fire detector (4000WD2).
- (k) If the fault continues:
 - disconnect the connector 2WD1-B from the engine 1 FDU (2WD1)
 - on the connector, on the wiring side, make sure that the equivalent resistance value between pins J and K is between 1425 ohms and 1575 ohms.
- (l) If the equivalent resistance value is not correct and is: between 2137 ohms and 2363 ohms: there is one defective detector between 4275 ohms and 4725 ohms: there are two defective detectors
 - infinite: there is either three defective detectors or a defective wiring.
 - disconnect the electrical harness from the three loop **B** fire detectors
 - on the responder of each detector, make sure that the resistance value is between 4275 ohms and 4725 ohms:

 between pins A and D for the engine 1 pylon loop B fire detector (4WD1) and the fan loop B fire detector (4000WD2),
 between pins A and C for the core loop B fire detector.
 - . between pins A and C for the core loop B fire detector (4001WD2).
 - 1 If the resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 1 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001)
 - for DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042)
 - for DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - connect the electrical connector 2WD1-B to the engine 1 FDU.
 - 2 If the resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP B) from the engine 1 FDU (2WD1) to the three loop B fire detectors (Ref. ASM 26-12/01).

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- R (m) If the equivalent resistance value is correct:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - 1 If the fault continues:
 - disconnect the electrical harness from the three loop **B** fire detectors
 - on the responder of each detector, make sure that the insulation resistance value is higher than 20 Megohms:
 between pin A and the responder metal casing and between pin D and the responder metal casing for the engine 1 pylon loop B fire detector (4WD1) and the fan loop B fire detector (4000WD2).
 - . between pin A and the responder metal casing and between pin C and the responder metal casing for the core loop B fire detector (4001WD2).
 - a If the insulation resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 1 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001) for DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042) for DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - connect the electrical connector 2WD1-B to the engine 1
 FDU.
 - b If the insulation resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP B) from the engine 1 FDU (2WD1) to the three loop B fire detectors (Ref. ASM 26-12/01).
 - B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-805

Loss of the Detection by the Engine 2 Loop A

1. Possible Causes

- DET-FIRE, ENG 2 PYLON LOOP A (3WD2)
- FDU-ENG2 (2WD2)
- DET-FIRE, FAN LOOP A (4000WD1)
- DET-FIRE, CORE LOOP A (4001WD1)
- wiring

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
АММ	26-12-00-200-003	Visual Inspection of the Engine Fire Detection System
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-15-000-042	Removal of the Fan Fire Detectors (4000WD1,4000WD2)
AMM	26-12-15-400-042	Installation of the Fan Fire Detectors (4000WD1,4000WD2)
AMM	26-12-16-000-001	Removal of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)
AMM	26-12-16-400-001	<pre>Installation of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)</pre>
AMM	26-12-17-000-041	Removal of the Core Fire Detectors (4001WD1, 4001WD2)
AMM	26-12-17-400-041	<pre>Installation of the Core Fire Detectors (4001WD1, 4001WD2)</pre>
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
AMM	78-36-51-400-040	Installation of the Thrust Reverser Half Door Opening Actuator
ASM	26-12/01	

3. Fault Confirmation

A. Test

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(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

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4. Fault Isolation

- A. If the test gives the maintenance message CHECK ENG 2 FIRE LOOP A:
 - do a visual inspection of the three loop A fire detectors (Ref. AMM TASK 26-12-00-200-003).
 - (1) If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - . for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001)
 - . for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042)
 - for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - (2) If there is no visual damage, do a visual inspection of the engine 2 near the three fire detectors.
 Make sure that:
 - (a) There is no fuel or hydraulic leakage.
 - (b) There is no air leakage at the connections of the bleed air duct.
 - (c) The electrical cables are correctly connected.
 - (d) The bend in the flex hose is outboard and away from the engine (Ref. AMM TASK 78-36-51-400-040).
 - (3) If there is no visual damage, do a visual inspection for retention or worn contact of each pin of the terminal block 450VT2. If necessary, replace the terminal block.
 - (4) If there is no visual damage, swap the pins that follow:
 - the pins B and D of the terminal block 450VT2 section 1 with the pins D and A of the terminal block 450VT2 section 2.
 - (a) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP A again:
 - swap back the pins B and D of the terminal block 450VT2 section 1 with the pins D and A of the terminal block 450VT2 section 2.
 - repair the wiring from the terminal block 450VT2 to the engine 2 Fire Detection Unit (FDU) (2WD2).
 - (b) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP B:
 - swap back the pins B and D of the terminal block 450VT2 section 1 with the pins D and A of the terminal block 450VT2 section 2.
 - 1 Swap the pins that follow:
 - the pins of the terminal block 450VT2 section 1 of the engine 2 pylon loop A fire detector (3WD2) with the pins of

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the terminal block 450VT2 section 2 of the engine 2 pylon loop B fire detector (4WD2).

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- (c) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP A again:
 - swap back the pins of the fire detector (3WD2) with the pins of the fire detector (4WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT2 section 1 to the fire detector (3WD2) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, ENG 2 PYLON LOOP A (3WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001).

- R R
- (d) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP B:
 - swap back the pins of the fire detector (3WD2) with the pins of the fire detector (4WD2).
- (e) If the fault continues, swap the pins that follow:
 - the pins of the terminal block 450VT2 section 1 of the core loop A fire detector (4001WD1)
 - with the pins of the terminal block 450VT2 section 2 of the core loop B fire detector (4001WD2).

- R R
- (f) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP A again:
 - swap back the pins of the fire detector (4001WD1) with the pins of the fire detector (4001WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT2 section 1 to the fire detector (4001WD1) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).

- R R
- (g) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP R.
 - swap back the pins of the fire detector (4001WD1) with the pins of the fire detector (4001WD2).
- (h) If the fault continues, swap the pins that follow:
 - the pins of the terminal block 450VT2 section 1 of the fan loop
 A fire detector (4000WD1)
 - with the pins of the terminal block 450VT2 section 2 of the fan loop B fire detector (4000WD2).

EFF: ALL

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- (i) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP A again:
 - swap back the pins of the fire detector (4000WD1) with the pins of the fire detector (4000WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT2 section 1 to the fire detector (4000WD1) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042).

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- (j) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP B:
 - swap back the pins of the fire detector (4000WD1) with the pins of the fire detector (4000WD2).
- (k) If the fault continues:
 - disconnect the connector 2WD2-A from the engine 2 FDU (2WD2)
 - on the connector, on the wiring side, make sure that the equivalent resistance value between pins J and K is between 1425 ohms and 1575 ohms.
- (l) If the equivalent resistance value is not correct and is: between 2137 ohms and 2363 ohms: there is one defective detector between 4275 ohms and 4725 ohms: there are two defective detectors
 - infinite: there is either three defective detectors or a defective wiring.
 - disconnect the electrical harness from the three loop A fire detectors
 - on the responder of each detector, make sure that the resistance value is between 4275 ohms and 4725 ohms:

 between pins A and D for the engine 2 pylon loop A fire detector (3WD2) and the fan loop A fire detector (4000WD1),
 between pins A and C for the core loop A fire detector (4001WD1).
 - 1 If the resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001)
 - for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042)
 - for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - connect the electrical connector 2WD2-A to the engine 2 FDU.
 - 2 If the resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP A) from the engine 2 FDU (2WD2) to the three loop A fire detectors (Ref. ASM 26-12/01).

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- R
- (m) If the equivalent resistance value is correct:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - If the fault continues:
 - disconnect the electrical harness from the three loop A fire detectors
 - on the responder of each detector, make sure that the insulation resistance value is higher than 20 Megohms: between pin A and the responder metal casing and between pin D and the responder metal casing for the engine 2 pylon loop A fire detector (3WD2) and the fan loop A fire detector (4000WD1).
 - between pin A and the responder metal casing and between pin C and the responder metal casing for the core loop A fire detector (4001WD1).
 - a If the insulation resistance value is not correct:
 - replace the related fire detector:
 - . for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001) . for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042) . for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - connect the electrical connector 2WD2-A to the engine 2 FDU.
 - b If the insulation resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP A) from the engine 2 FDU (2WD2) to the three loop A fire detectors (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-806

Loss of the Detection by the Engine 2 Loop B

1. Possible Causes

- DET-FIRE, ENG 2 PYLON LOOP B (4WD2)
- FDU-ENG2 (2WD2)
- DET-FIRE, FAN LOOP B (4000WD2)
- DET-FIRE, CORE LOOP B (4001WD2)
- wiring

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-200-003	Visual Inspection of the Engine Fire Detection System
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-15-000-042	Removal of the Fan Fire Detectors (4000WD1,4000WD2)
AMM	26-12-15-400-042	<pre>Installation of the Fan Fire Detectors (4000WD1,4000WD2)</pre>
AMM	26-12-16-000-001	Removal of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)
AMM	26-12-16-400-001	<pre>Installation of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)</pre>
AMM	26-12-17-000-041	Removal of the Core Fire Detectors (4001WD1, 4001WD2)
AMM	26-12-17-400-041	<pre>Installation of the Core Fire Detectors (4001WD1, 4001WD2)</pre>
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
AMM	78-36-51-400-040	Installation of the Thrust Reverser Half Door Opening Actuator
ASM	26-12/01	

3. Fault Confirmation

A. Test

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(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

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4. Fault Isolation

- A. If the test gives the maintenance message CHECK ENG 2 FIRE LOOP B:
 - do a visual inspection of the three loop B fire detectors (Ref. AMM TASK 26-12-00-200-003).
 - (1) If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - . for DET-FIRE, ENG 2 PYLON LOOP B (4WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001)
 - . for DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042)
 - for DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - (2) If there is no visual damage, do a visual inspection of the engine 2 near the three fire detectors.
 Make sure that:
 - (a) There is no fuel or hydraulic leakage.
 - (b) There is no air leakage at the connections of the bleed air duct.
 - (c) The electrical cables are correctly connected.
 - (d) The bend in the flex hose is outboard and away from the engine (Ref. AMM TASK 78-36-51-400-040).
 - (3) If there is no visual damage, do a visual inspection for retention or worn contact of each pin of the terminal block 450VT2. If necessary, replace the terminal block.
 - (4) If there is no visual damage, swap the pins that follow:
 - the pins B and D of the terminal block 450VT2 section 1 with the pins D and A of the terminal block 450VT2 section 2.
 - (a) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP B again:
 - swap back the pins B and D of the terminal block 450VT2 section 1 with the pins D and A of the terminal block 450VT2 section 2.
 - repair the wiring from the terminal block 450VT2 to the engine 2 Fire Detection Unit (FDU) (2WD2).
 - (b) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP A:
 - swap back the pins B and D of the terminal block 450VT2 section 1 with the pins D and A of the terminal block 450VT2 section 2.
 - 1 If the wiring is correct and if the fault continues, swap the pins that follow:

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- the pins of the terminal block 450VT2 section 1 of the engine 2 pylon loop A fire detector (3WD2) with the pins of the terminal block 450VT2 section 2 of the engine 2 pylon loop B fire detector (4WD2).

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- (c) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP B again:
 - swap back the pins of the fire detector (3WD2) with the pins of the fire detector (4WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT2 section 2 to the fire detector (4WD2) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, ENG 2 PYLON LOOP B (4WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001).

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- (d) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP A:
 - swap back the pins of the fire detector (3WD2) with the pins of the fire detector (4WD2).
- (e) If the fault continues, swap the pins that follow:
 - the pins of the terminal block 450VT2 section 1 of the core loop A fire detector (4001WD1)
 - with the pins of the terminal block 450VT2 section 2 of the core loop B fire detector (4001WD2).

R

- (f) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP B again:
 - swap back the pins of the fire detector (4001WD1) with the pins of the fire detector (4001WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT2 section 2 to the fire detector (4001WD2) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).

R R

- (g) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP A:
 - swap back the pins of the fire detector (4001WD1) with the pins of the fire detector (4001WD2).
- (h) If the fault continues, swap the pins that follow:
 - the pins of the terminal block 450VT2 section 1 of the fan loop
 A fire detector (4000WD1)
 - with the pins of the terminal block 450VT2 section 2 of the fan loop B fire detector (4000WD2).

EFF: ALL

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R R

- (i) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP B again:
 - swap back the pins of the fire detector (4000WD1) with the pins of the fire detector (4000WD2).
 - do a check and if necessary, repair the wiring from the terminal block 450VT2 section 2 to the fire detector (4000WD2) (Ref. ASM 26-12/01).
 - 1 If the wiring is correct and if the fault continues:
 - replace the DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042).

R R

- (j) If the test gives the maintenance message CHECK ENG 2 FIRE LOOP A:
 - swap back the pins of the fire detector (4000WD1) with the pins of the fire detector (4000WD2).
- (k) If the fault continues:
 - disconnect the connector 2WD2-B from the engine 2 FDU (2WD2)
 - on the connector, on the wiring side, make sure that the equivalent resistance value between pins J and K is between 1425 ohms and 1575 ohms.
- (l) If the equivalent resistance value is not correct and is: between 2137 ohms and 2363 ohms: there is one defective detector between 4275 ohms and 4725 ohms: there are two defective detectors
 - infinite: there is either three defective detectors or a defective wiring.
 - disconnect the electrical harness from the three loop **B** fire detectors
 - on the responder of each detector, make sure that the resistance value is between 4275 ohms and 4725 ohms:
 between pins A and D for the engine 2 pylon loop B fire detector (4WD2) and the fan loop B fire detector (4000WD2),
 between pins A and C for the core loop B fire detector
 - between pins A and C for the core loop B fire detect (4001WD2).
 - 1 If the resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 2 PYLON LOOP B (4WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001)
 - for DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042)
 - . for DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - connect the electrical connector 2WD2-B to the engine 2 FDU.
 - 2 If the resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP B) from the engine 2 FDU (2WD2) to the three loop B fire detectors (Ref. ASM 26-12/01).

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(m) If the equivalent resistance value is correct:

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- replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
- 1 If the fault continues:
 - disconnect the electrical harness from the three loop **B** fire detectors
 - on the responder of each detector, make sure that the insulation resistance value is higher than 20 Megohms:
 between pin A and the responder metal casing and between pin D and the responder metal casing for the engine 2 pylon loop B fire detector (4WD2) and the fan loop B fire detector (4000WD2).
 - . between pin A and the responder metal casing and between pin C and the responder metal casing for the core loop B fire detector (4001WD2).
 - a If the insulation resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 2 PYLON LOOP B (4WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001) for DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042) for DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - connect the electrical connector 2WD2-B to the engine 2
 FDU.
 - b If the insulation resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP B) from the engine 2 FDU (2WD2) to the three loop B fire detectors (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-807

Loss of the Detection by the Engine 1 Loop A and Loop B

1. Possible Causes

- DET-FIRE, ENG 1 PYLON LOOP A (3WD1)
- DET-FIRE, ENG 1 PYLON LOOP B (4WD1)
- FDU-ENG1 (2WD1)
- DET-FIRE, FAN LOOP A (4000WD1)
- DET-FIRE, FAN LOOP B (4000WD2)
- DET-FIRE, CORE LOOP A (4001WD1)
- DET-FIRE, CORE LOOP B (4001WD2)
- wiring

2. Job Set-up Information

A. Referenced Information

	REFERENCE		DESIGNATION
		24 42 00 200 007	
		26-12-00-200-003	Visual Inspection of the Engine Fire Detection System
	AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
	AMM	26-12-15-000-042	Removal of the Fan Fire Detectors (4000WD1,4000WD2)
	AMM	26-12-15-400-042	<pre>Installation of the Fan Fire Detectors (4000WD1,4000WD2)</pre>
	AMM	26-12-16-000-001	Removal of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)
	AMM	26-12-16-400-001	<pre>Installation of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)</pre>
1	AMM	26-12-17-000-041	Removal of the Core Fire Detectors (4001WD1, 4001WD2)
t	AMM	26-12-17-400-041	<pre>Installation of the Core Fire Detectors (4001WD1, 4001WD2)</pre>
	AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
	AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
	ASM	26-12/01	

3. Fault Confirmation

A. Test

R R

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

EFF: ALL

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4. Fault Isolation

- A. If the test gives the two maintenance messages CHECK ENG 1 FIRE LOOP A and CHECK ENG 1 FIRE LOOP B:
 - disconnect the connectors 2WD1-A and 2WD1-B from the engine 1 FDU (2WD1),
 - on each of these connectors, on the wiring side, make sure that the equivalent resistance value between pins J and K is between 1425 ohms and 1575 ohms.
 - (1) If the equivalent resistance value on the loops A and B is not correct and is:
 - between 2137 ohms and 2363 ohms: there is one defective detector
 - . between 4275 ohms and 4725 ohms: there are two defective detectors
 - infinite: there is either three defective detectors or a defective wiring.
 - (a) If the equivalent resistance value is not correct:
 - do a visual inspection of the three loop A and B fire detectors (Ref. AMM TASK 26-12-00-200-003).
 - 1 If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) and DET-FIRE, ENG1
 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and
 (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) and DET-FIRE, FAN LOOPB
 (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM
 TASK 26-12-15-400-042),
 - for DET-FIRE, CORE LOOP A (4001WD1) and DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - 2 If there is no visual damage:
 - disconnect the electrical harness from each engine 1 fire detector
 - on the responder of each fire detector, make sure that the resistance value is between 4275 ohms and 4725 ohms: . between pins A and D for the engine 1 pylon A fire detector (3WD1), engine 1 pylon B fire detector (4WD1), fan loop A fire detector (4000WD1) and fan loop B fire detector (4000WD2).
 - between pins A and C for the core loop A fire detector (4001WD1) and fan loop B fire detector (4001WD2).
 - a If the resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) and DET-FIRE, ENG 1 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001),

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- for DET-FIRE, FAN LOOP A (4000WD1) and DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042),
- for DET-FIRE, CORE LOOP A (4001WD1) and DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
- connect the electrical connectors 2WD1-A and 2WD1-B to the engine 1 FDU.
- b If the resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP A) and (LOOP B) from the engine 1 FDU (2WD1) to the three loop A and B fire detectors (Ref. ASM 26-12/01).
- (2) If the equivalent resistance value is correct on one loop and not on the other.
 - (a) For the loop with the incorrect resistance value:
 - do a visual inspection of the three loop fire detectors (Ref. AMM TASK 26-12-00-200-003).
 - 1 If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) or DET-FIRE, ENG 1
 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and
 (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) or DET-FIRE, FAN LOOP B
 (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM
 TASK 26-12-15-400-042),
 - for DET-FIRE, CORE LOOP A (4001WD1) or DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - 2 If there is no visual damage:
 - disconnect the electrical harness from each engine 1 fire detector
 - on the responder of each fire detector, make sure that the resistance value is between 4275 ohms and 4725 ohms: . between pins A and D for the engine 1 pylon A fire detector (3WD1) or engine 1 pylon B fire detector (4WD1), fan loop A fire detector (4000WD1) or fan loop B fire detector (4000WD2).
 - . between pins A and C for the core loop A fire detector (4001WD1) or fan loop B fire detector (4001WD2).
 - a If the resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) or DET-FIRE, ENG 1 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001),

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- for DET-FIRE, FAN LOOP A (4000WD1) or DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042),
- for DET-FIRE, CORE LOOP A (4001WD1) or DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
- connect the electrical connector to the engine 1 FDU.
- b If the resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P from the engine 1 FDU (2WD1) to the three loop fire detectors (Ref. ASM 26-12/01).
- (b) For the loop with the correct resistance value:
 - disconnect the electrical harness from the three fire detectors
 - on the responder of each detector, make sure that the insulation resistance value is higher than 20 Megohms:
 - between pins A and the responder metal casing and between pin D and the responder metal casing for the engine 1 pylon A fire detector (3WD1) or engine 1 pylon B fire detector (4WD1), fan loop A fire detector (4000WD1) or fan loop B fire detector (4000WD2).
 - between pin A and and the responder metal casing and between pin C and the responder metal casing for the core loop A fire detector (4001WD1) or fan loop B fire detector (4001WD2).
 - 1 If the insulation resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) or DET-FIRE, ENG 1
 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and
 (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) or DET-FIRE, FAN LOOP B
 (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM
 TASK 26-12-15-400-042),
 - for DET-FIRE, CORE LOOP A (4001WD1) or DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - 2 If the insulation resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P from the engine 1 FDU (2WD1) to the three loop fire detectors (Ref. ASM 26-12/01).
- (3) If the equivalent resistance values are correct on the loops A and B:
 replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and
 (Ref. AMM TASK 26-12-34-400-001).
 - (a) If the fault continues:
 - disconnect the electrical harness from the three loop A and B fire detectors
 - on the responder of each detector, make sure that the insulation resistance value is higher than 20 Megohms:

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- between pins A and the responder metal casing and between pin D and the responder metal casing for the engine 1 pylon A fire detector (3WD1), engine 1 pylon B fire detector (4WD1), fan loop A fire detector (4000WD1) and fan loop B fire detector (4000WD2).
- between pin A and and the responder metal casing and between pin C and the responder metal casing for the core loop A fire detector (4001WD1) and fan loop B fire detector (4001WD2).
- 1 If the insulation resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) and DET-FIRE, ENG1
 PYLON LOOP B (4WD1) (Ref. AMM TASK 26-12-16-000-001) and
 (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) and DET-FIRE, FAN LOOPB
 (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM
 TASK 26-12-15-400-042),
 - for DET-FIRE, CORE LOOP A (4001WD1) and DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
- 2 If the insulation resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP A) and (LOOP B) from the engine 1 FDU (2WD1) to the three loop A and B fire detectors (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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GA319/A320/A321

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TASK 26-12-00-810-808

Loss of the Detection by the Engine 2 Loop A and Loop B

1. Possible Causes

- DET-FIRE, ENG 2 PYLON LOOP A (3WD2)
- DET-FIRE, ENG 2 PYLON LOOP B (4WD2)
- FDU-ENG2 (2WD2)
- DET-FIRE, FAN LOOP A (4000WD1)
- DET-FIRE, FAN LOOP B (4000WD2)
- DET-FIRE, CORE LOOP A (4001WD1)
- DET-FIRE, CORE LOOP B (4001WD2)
- wiring

2. Job Set-up Information

A. Referenced Information

REFE	RENCE	DESIGNATION
AMM	26-12-00-200-003	Visual Inspection of the Engine Fire Detection System
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-15-000-042	Removal of the Fan Fire Detectors (4000WD1,4000WD2)
AMM	26-12-15-400-042	<pre>Installation of the Fan Fire Detectors (4000WD1,4000WD2)</pre>
AMM	26-12-16-000-001	Removal of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)
AMM	26-12-16-400-001	<pre>Installation of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)</pre>
AMM	26-12-17-000-041	Removal of the Core Fire Detectors (4001WD1, 4001WD2)
AMM	26-12-17-400-041	Installation of the Core Fire Detectors (4001WD1, 4001WD2)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
ASM	26-12/01	·

3. Fault Confirmation

A. Test

R R

> (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

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4. Fault Isolation

- A. If the test gives the two maintenance messages CHECK ENG 2 FIRE LOOP A and CHECK ENG 2 FIRE LOOP B:
 - disconnect the connectors 2WD2-A and 2WD2-B from the engine 2 FDU (2WD2),
 - on each of these connectors, on the wiring side, make sure that the equivalent resistance value between pins J and K is between 1425 ohms and 1575 ohms.
 - (1) If the equivalent resistance value on the loops A and B is not correct and is:
 - . between 2137 ohms and 2363 ohms: there is one defective detector
 - . between 4275 ohms and 4725 ohms: there are two defective detectors
 - infinite: there is either three defective detectors or defective wiring.
 - (a) If the equivalent resistance value is not correct:
 - do a visual inspection of the three loop A and B fire detectors (Ref. AMM TASK 26-12-00-200-003).
 - 1 If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) DET-FIRE, ENG 2
 PYLON LOOP B (4WD2) and (Ref. AMM TASK 26-12-16-000-001) and
 (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) and DET-FIRE, FAN LOOPB
 (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM
 TASK 26-12-15-400-042),
 - for DET-FIRE, CORE LOOP A (4001WD1) and DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - 2 If there is no visual damage:
 - disconnect the electrical harness from each engine 2 fire detector
 - on the responder of each fire detector, make sure that the resistance value is between 4275 ohms and 4725 ohms:
 between pins A and D for the engine 2 pylon A fire detector (3WD2), engine 2 pylon B fire detector (4WD2), fan loop A fire detector (4000WD1) and fan loop B fire detector (4000WD2).
 - between pins A and C for the core loop A fire detector (4001WD1) and fan loop B fire detector (4001WD2).
 - a If the resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) and DET-FIRE, ENG 2 PYLON LOOP B (4WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001),

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- for DET-FIRE, FAN LOOP A (4000WD1) and DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042),
- for DET-FIRE, CORE LOOP A (4001WD1) and DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
- connect the electrical connectors 2WD2-A and 2WD2-B to the engine 2 FDU.
- b If the resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP A) and (LOOP B) from the engine 2 FDU (2WD2) to the three loop A and B fire detectors (Ref. ASM 26-12/01).
- (2) If the equivalent resistance value is correct on one loop and not on the other.
 - (a) For the loop with the incorrect resistance value:
 - do a visual inspection of the three loop fire detectors (Ref. AMM TASK 26-12-00-200-003).
 - 1 If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) or DET-FIRE, ENG 2
 PYLON LOOP B (4WD2) (Ref. AMM TASK 26-12-16-000-001) and
 (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) or DET-FIRE, FAN LOOP B
 (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM
 TASK 26-12-15-400-042),
 - for DET-FIRE, CORE LOOP A (4001WD1) or DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - 2 If there is no visual damage:
 - disconnect the electrical harness from each engine 2 fire detector
 - on the responder of each fire detector, make sure that the resistance value is between 4275 ohms and 4725 ohms: . between pins A and D for the engine 2 pylon A fire detector (3WD2) or engine 2 pylon B fire detector (4WD2), fan loop A fire detector (4000WD1) or fan loop B fire detector (4000WD2).
 - . between pins A and C for the core loop A fire detector (4001WD1) and fan loop B fire detector (4001WD2).
 - a If the resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) or DET-FIRE, ENG 2 PYLON LOOP B (4WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001),

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- for DET-FIRE, FAN LOOP A (4000WD1) or DET-FIRE, FAN LOOP B (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM TASK 26-12-15-400-042),
- for DET-FIRE, CORE LOOP A (4001WD1) or DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
- connect the electrical connector to the engine 2 FDU.
- b If the resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P from the engine 2 FDU (2WD2) to the three loop fire detectors (Ref. ASM 26-12/01).
- (b) For the loop with the correct resistance:
 - disconnect the electrical harness from the three fire detectors
 - on the responder of each detector, make sure that the insulation resistance value is higher than 20 Megohms:
 - between pins A and the responder metal casing and between pin D and the responder metal casing for the engine 2 pylon A fire detector (3WD2) or engine 2 pylon B fire detector (4WD2), fan loop A fire detector (4000WD1) or fan loop B fire detector (4000WD2).
 - between pin A and the responder metal casing and between pin C and the responder metal casing for the core loop A fire detector (4001WD1) or fan loop B fire detector (4001WD2).
 - 1 If the insulation resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) or DET-FIRE, ENG 2
 PYLON LOOP B (4WD2) (Ref. AMM TASK 26-12-16-000-001) and
 (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) or DET-FIRE, FAN LOOP B
 (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM
 TASK 26-12-15-400-042),
 - for DET-FIRE, CORE LOOP A (4001WD1) or DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
 - 2 If the insulation resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P from the engine 2 FDU (2WD2) to the three loop fire detectors (Ref. ASM 26-12/01).
- (3) If the equivalent resistance values are correct on the loop A and B:
 replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and
 (Ref. AMM TASK 26-12-34-400-001).
 - (a) If the fault continues:
 - disconnect the electrical harness from the three loop A and B fire detectors
 - on the responder of each detector, make sure that the insulation resistance value is higher than 20 Megohms:

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- between pins A and the responder metal casing and between pin D and the responder metal casing for the engine 2 pylon A fire detector (3WD2), engine 2 pylon B fire detector (4WD2), fan loop A fire detector (4000WD1) and fan loop B fire detector (4000WD2).
- between pin A and the responder metal casing and between pin C and the responder metal casing for the core loop A fire detector (4001WD1) and fan loop B fire detector (4001WD2).
- 1 If the insulation resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) and DET-FIRE, ENG2
 PYLON LOOP B (4WD2) (Ref. AMM TASK 26-12-16-000-001) and
 (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) and DET-FIRE, FAN LOOPB
 (4000WD2) (Ref. AMM TASK 26-12-15-000-042) and (Ref. AMM
 TASK 26-12-15-400-042),
 - for DET-FIRE, CORE LOOP A (4001WD1) and DET-FIRE, CORE LOOP B (4001WD2) (Ref. AMM TASK 26-12-17-000-041) and (Ref. AMM TASK 26-12-17-400-041).
- 2 If the insulation resistance value is correct:
 - do a check and repair the wiring of the FIRE DET I/P (LOOP A) and (LOOP B) from the engine 2 FDU (2WD2) to the three loop A and B fire detectors (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-809

Loss of the FIRE Warning Signal from the Engine 1 FDU (Loop A)

1. Possible Causes

- FDU-ENG1 (2WD1)
- wiring of the FIRE LOOP A discrete from the engine 1 FDU to the first terminal block

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)	
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)	
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>	
ASM	26-12/01		

3. Fault Confirmation

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 1 FIRE A WARN CKT:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the FIRE LOOP A discrete from the engine 1 FDU to the first terminal block (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-810

Loss of the FIRE Warning Signal from the Engine 1 FDU (Loop B)

1. Possible Causes

- FDU-ENG1 (2WD1)
- wiring of the FIRE LOOP B discrete from the engine 1 FDU to the first terminal block

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat
7	20 12 00 7 10 002	Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
ASM	26-12/01	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 1 FIRE B WARN CKT:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the FIRE LOOP B discrete from the engine 1 FDU to the first terminal block (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-811

Loss of the FIRE Warning Signal from the Engine 2 FDU Loop A

1. Possible Causes

- FDU-ENG2 (2WD2)
- wiring of the FIRE LOOP A discrete from the engine 2 FDU (2WD2) to the first terminal block

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)	
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)	
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>	
ASM	26-12/01		

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 2 FIRE A WARN CKT:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the FIRE LOOP A discrete from the engine 2 FDU (2WD2) to the first terminal block (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-812

Loss of the FIRE Warning Signal from the Engine 2 FDU Loop B

1. Possible Causes

- FDU-ENG2 (2WD2)
- wiring of the FIRE LOOP B discrete from the engine 2 FDU (2WD2) to the first terminal block

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat
7	20 12 00 7 10 002	Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
ASM	26-12/01	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 2 FIRE B WARN CKT:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the FIRE LOOP B discrete from the engine 2 FDU (2WD2) to the first terminal block (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-813

Loss of the First and Third Rows of the Legend of the ENG 1 FIRE Pushbutton Switch

1. Possible Causes

- BOARD-ANN LT TEST & INTFC (5LP)
- ENG/APU FIRE PNL (1WD)
- wiring of the annunciator light test and interface board (5LP)
- wiring of the ENG/APU fire panel (1WD)

2. Job Set-up Information

A. Referenced Information

	REFE	RENCE	DESIGNATION	
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
	AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	<pre>Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,</pre>	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01	, , , ,	

3. Fault Confirmation

A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION ______ 30LP X06

122VU LIGHTING/TST/BOARD/SPLY

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

B. Test

- A. If during the test, the first and third rows of the legend of the ENG 1 FIRE pushbutton switch do not come on:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the first and third rows of the legend of the ENG 1 FIRE pushbutton switch come on.

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- (1) If they come on:
 - replace the BOARD-ANN LT TEST & INTFC (5LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the annunciator light test and interface board (5LP) from pin A/31 to the first terminal block (Ref. ASM 26-12/01).
 - (b) If they do not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - 1 If the fault continues:
 - do a check and repair the wiring of the ENG/APU fire panel (1WD) from pin A/A to the first terminal block and from pin A/B to the pin A/17 of the annunciator light test and interface board (5LP) (Ref. ASM 26-12/01).
- B. Do the test given in para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-814

Loss of the Second and Fourth Rows of the Legend of the ENG 1 FIRE Pushbutton Switch

1. Possible Causes

- BOARD-ANN LT TEST & INTFC (18LP)
- ENG/APU FIRE PNL (1WD)
- wiring of the annunciator light test and interface board (18LP)
- wiring of the ENG/APU fire panel (1WD)

2. Job Set-up Information

A. Referenced Information

	REFE	RENCE	DESIGNATION	
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
	AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01	, , , ,	

3. Fault Confirmation

A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY 30LP X06

B. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If during the test, the second and fourth rows of the legend of the ENG 1 FIRE pushbutton switch do not come on:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the second and fourth rows of the legend of the ENG 1 FIRE pushbutton switch come on.

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- (1) If they come on:
 - replace the BOARD-ANN LT TEST & INTFC (18LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the annunciator light test and interface board (18LP) from pin A/7 to the first terminal block and from pin A/6 to the first terminal block (Ref. ASM 26-12/01).
 - (b) If they do not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - 1 If the fault continues:
 - do a check and repair the wiring of the ENG/APU fire panel (1WD) from pin B/A to the first terminal block and from pin B/B to the pin A/5 of the annunciator light test and interface board (18LP) (Ref. ASM 26-12/01).
- B. Do the test given in para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-815

Loss of the First and Third Rows of the Legend of the ENG 2 FIRE Pushbutton Switch

1. Possible Causes

- BOARD-ANN LT TEST & INTFC (18LP)
- ENG/APU FIRE PNL (1WD)
- wiring of the annunciator light test and interface board (18LP)
- wiring of the ENG/APU fire panel (1WD)

2. Job Set-up Information

A. Referenced Information

	REFE	RENCE	DESIGNATION	
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
	AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	<pre>Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,</pre>	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01		

3. Fault Confirmation

A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY

30LP

X06

- B. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If during the test, the first and third rows of the legend of the ENG 2 FIRE pushbutton switch do not come on:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the first and third rows of the legend of the ENG 2 FIRE pushbutton switch come on.

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- (1) If they come on:
 - replace the BOARD-ANN LT TEST & INTFC (18LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the annunciator light test and interface board (18LP) from pin A/3 to the first terminal block and from pin A/2 to the first terminal block (Ref. ASM 26-12/01).
 - (b) If they do not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - 1 If the fault continues:
 - do a check and repair the wiring of the ENG/APU fire panel (1WD) from pin C/A to the first terminal block and from pin C/B to the pin A/1 of the annunciator light test and interface board (18LP) (Ref. ASM 26-12/01).
- B. Do the test given in para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-816

Loss of the Second and Fourth Rows of the Legend of the ENG 2 FIRE Pushbutton Switch

1. Possible Causes

- BOARD-ANN LT TEST & INTFC (5LP)
- ENG/APU FIRE PNL (1WD)
- wiring of the annunciator light test and interface board (5LP)
- wiring of the ENG/APU fire panel (1WD)

2. Job Set-up Information

A. Referenced Information

	REFE	RENCE	DESIGNATION	
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
	AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	<pre>Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,</pre>	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01	, , , ,	

3. Fault Confirmation

A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY 30LP X06

B. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If during the test, the second and fourth rows of the legend of the ENG 2 FIRE pushbutton switch do not come on:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the second and fourth rows of the legend of the ENG 2 FIRE pushbutton switch come on.

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- (1) If they come on:
 - replace the BOARD-ANN LT TEST & INTFC (5LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the annunciator light test and interface board (5LP) from pin A/34 to the first terminal block and from pin A/35 to pin A/21 (Ref. ASM 26-12/01).
 - (b) If they do not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - 1 If the fault continues:
 - do a check and repair the wiring of the ENG/APU fire panel (1WD) from pin D/A to the first terminal block and from pin D/B to the pin A/18 of the annunciator light test and interface board (5LP) (Ref. ASM 26-12/01).
- B. Do the test given in para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

GA319/A320/A321

TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-817

Loss of the FIRE Legend of ENG/1 FIRE/FAULT Annunciator

- 1. Possible Causes
 - BOARD-ANN LT TEST & INTFC (5LP)
 - wiring of the annunciator light test and interface board (5LP)
 - ENG/1 FIRE/FAULT annunciator (5KS1)
 - wiring of the ENG/1 FIRE/FAULT annunciator (5KS1)
- 2. Job Set-up Information
 - A. Referenced Information

	REFERENCE		DESIGNATION	
		24 42 00 740 004		
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and	
			Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01		

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY 30LP X06

- B. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

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4. Fault Isolation

- A. If during the test, the FIRE legend of the ENG/1 FIRE/FAULT annunciator does not come on:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the FIRE legend of the ENG/1 FIRE/FAULT annunciator comes on.
 - (1) If it comes on:
 - replace the BOARD-ANN LT TEST & INTFC (5LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the annunciator light test and interface board (5LP), from pin A/38 to the first terminal block and from pin A/39 to pin A/32 (Ref. ASM 26-12/01).
 - (b) If it does not come on:
 - replace the ENG/1 FIRE/FAULT annunciator (5KS1).
 - 1 If the fault continues:
 - do a check and repair the wiring of the ENG/1 FIRE/FAULT annunciator (5KS1), from pin A/9 to the first terminal block and from pin A/7 to the pin A/37 of the annunciator light test and interface board (5LP) (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

GA319/A320/A321

TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-818

Loss of the FIRE Legend of ENG/2 FIRE/FAULT Annunciator

- 1. Possible Causes
 - BOARD-ANN LT TEST & INTFC (5LP)
 - wiring of the annunciator light test and interface board (5LP)
 - ENG/2 FIRE/FAULT annunciator (5KS2)
 - wiring of the ENG/2 FIRE/FAULT annunciator (5KS2)
- 2. Job Set-up Information
 - A. Referenced Information

	REFERENCE		DESIGNATION	
		26-12-00-710-001	Operational Check of Loop/Squib	
R	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP, 8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
_	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R	ASM	26-12/01	8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY 30LP X06

- B. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

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4. Fault Isolation

- A. If during the test, the FIRE legend of the ENG/2 FIRE/FAULT annunciator does not come on:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the FIRE legend of the ENG/2 FIRE/FAULT annunciator comes on.
 - (1) If it comes on:
 - replace the BOARD-ANN LT TEST & INTFC (5LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the annunciator light test and interface board (5LP), from pin A/45 to the first terminal block (Ref. ASM 26-12/01).
 - (b) If it does not come on:
 - replace the ENG/2 FIRE/FAULT annunciator (5KS2).
 - 1 If the fault continues:
 - do a check and repair the wiring of the ENG/2 FIRE/FAULT annunciator (5KS2), from pin A/9 to the first terminal block and from pin A/7 to the pin A/10 of the annunciator light test and interface board (5LP) (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-819

Loss of the First and Third Rows of the Legend of the ENG 1 FIRE Pushbutton Switch and the FIRE Legend of the ENG/1 FIRE/FAULT Annunciator

1. Possible Causes

- BOARD-ANN LT TEST & INTFC (5LP)
- wiring of the annunciator light test and interface board (5LP)

2. Job Set-up Information

A. Referenced Information

	REFERENCE		DESIGNATION	
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01		

3. Fault Confirmation

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If during the test, the first and third rows of the legend of the ENG 1 FIRE pushbutton switch and the FIRE legend of the ENG/1 FIRE/FAULT annunciator do not come on:
 - replace the BOARD-ANN LT TEST & INTFC (5LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the annunciator light test and interface board (5LP), from pin A/33 to the first terminal block (Ref. ASM 26-12/01).
- B. Do the test given in para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-820

Loss of the Second and Fourth Rows of the Legend of the ENG 2 FIRE Pushbutton Switch and the FIRE Legend of the ENG/2 FIRE/FAULT Annunciator

- 1. Possible Causes
 - BOARD-ANN LT TEST & INTFC (5LP)
 - wiring of the annunciator light test and interface board (5LP)
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE	DESIGNATION	
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01		

- 3. Fault Confirmation
 - A. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
- 4. Fault Isolation
 - A. If during the test, the second and fourth rows of the legend of the ENG 2 FIRE pushbutton switch and the FIRE legend of the ENG/2 FIRE/FAULT annunciator do not come on:
 - replace the BOARD-ANN LT TEST & INTFC (5LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the annunciator light test and interface board (5LP), from pin A/20 to the first terminal block (Ref. ASM 26-12/01).
 - B. Do the test given in para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-821

Loss of the FLT/GND Discrete from the Engine 1 FDU

1. Possible Causes

- FDU-ENG1 (2WD1)
- LGCIU-1 (5GA1)
- LGCIU-2 (5GA2)
- wiring of the FLT/GND discrete from the engine 1 FDU (2WD1) to the LGCIU 1 (5GA1)
- wiring of the FLT/GND discrete from the engine 1 FDU (2WD1) to the LGCIU 2 (5GA2)

2. Job Set-up Information

A. Referenced Information

REFE	RENCE	DESIGNATION
АММ	26-12-00-710-002	Operational Test of the Engine Fire and Overheat
		Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
AMM	32-31-71-000-001	Removal of the LGCIU (5GA1, 5GA2)
AMM ASM	32-31-71-400-001 26-12/01	Installation of the LGCIU (5GA1, 5GA2)

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 1 LGCIU INTFC: - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - replace the LGCIU-1 (5GA1) (Ref. AMM TASK 32-31-71-000-001) and (Ref. AMM TASK 32-31-71-400-001).

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TROUBLE SHOOTING MANUAL

- (2) If the fault continues:
 - do a check of the wiring of the FLT/GND discrete from the engine 1 FDU (2WD1) to the LGCIU 1 (5GA1) (Ref. ASM 26-12/01).
 - (a) If there is no continuity:repair the above wiring.
 - (b) If there is continuity:
 - replace the LGCIU-2 (5GA2) (Ref. AMM TASK 32-31-71-000-001) and (Ref. AMM TASK 32-31-71-400-001).
 - 1 If the fault continues:
 - do a check and repair the wiring of the FLT/GND discrete from the engine 1 FDU (2WD1) to the LGCIU 2 (5GA2) (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-822

Loss of the FLT/GND Discrete from the Engine 2 FDU

1. Possible Causes

- FDU-ENG2 (2WD2)
- LGCIU-2 (5GA2)
- LGCIU-1 (5GA1)
- wiring of the FLT/GND discrete from the engine 2 FDU (2WD2) to the LGCIU 2 (5GA2)
- wiring of the FLT/GND discrete from the engine 2 FDU (2WD2) to the LGCIU 1 (5GA1)

2. Job Set-up Information

A. Referenced Information

REFE	RENCE	DESIGNATION	
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System	
AMM	26-12-34-000-001	(CFDS) Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)	
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>	
AMM AMM ASM	32-31-71-000-001 32-31-71-400-001 26-12/01	Removal of the LGCIU (5GA1, 5GA2) Installation of the LGCIU (5GA1, 5GA2)	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 2 LGCIU INTFC: - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - replace the LGCIU-2 (5GA2) (Ref. AMM TASK 32-31-71-000-001) and (Ref. AMM TASK 32-31-71-400-001).

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- (2) If the fault continues:
 - do a check of the wiring of the FLT/GND discrete from the engine 2 FDU (2WD2) to the LGCIU 2 (5GA2) (Ref. ASM 26-12/01).
 - (a) If there is no continuity:repair the above wiring.
 - (b) If there is continuity:
 - replace the LGCIU-1 (5GA1) (Ref. AMM TASK 32-31-71-000-001) and (Ref. AMM TASK 32-31-71-400-001).
 - 1 If the fault continues:
 - do a check and repair the wiring of the FLT/GND discrete from the engine 2 FDU (2WD2) to the LGCIU 1 (5GA1) (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-823

Loss of the Power Supply of the Engine 1 FDU (Loop A)

1. Possible Causes

- FDU-ENG1 (2WD1)
- ENG/APU FIRE PNL (1WD)
- BOARD-ANN LT TEST & INTFC (5LP)
- wiring of the 28VDC signal from the circuit breaker 7WD1 to the engine 1
- wiring of the ground signal at the engine 1 FDU
- C/B-ENGINE/1/FIRE DET/LOOP A (7WD1)
- short to ground between the circuit breaker (7WD1) and the three units (2WD1, 1WD, 5LP)

2. Job Set-up Information

A. Referenced Information

	REFERENCE		DESIGNATION	
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
	AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
	AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)	
	AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
₹		77 44 77 400 004	8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	<pre>Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,</pre>	
₹			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01		
	ASM	26-12/01		

3. Fault Confirmation

A. Test

R

R

- (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
 - (a) If the circuit breaker 7WD1 is open, refer to Para. 4.C.

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4. Fault Isolation

A. Table of the circuit breakers used in this procedure:

PANEL DESIGNATION

IDENT. LOCATION

49VU ENGINE/1/FIRE DET/LOOP A

7WD1 A06

- B. If the circuit breaker 7WD1 is closed, and if the FIRE legend of the ENG 1 annunciator and the DISCH legend of the ENG 1/AGENT 1 pushbutton switch on the ENG/APU FIRE panel do not come on:
 - do a check for 28VDC at the pin A/A of the engine 1 FDU.
 - (1) If there is 28VDC:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (2) If there is no 28VDC:
 - do a check of the wiring of the 28VDC signal from the circuit breaker 7WD1 to the engine 1 FDU (Ref. ASM 26-12/01).
 - (a) If there is no continuity:repair the above wiring.
 - (b) If there is continuity:
 - do a check of the wiring of the ground signal at the engine 1
 FDU pin A/B

(Ref. ASM 26-12/01).

- 1 If there is no continuity: - repair the above wiring.
- 2 If there is continuity:
 replace the C/B-ENGINE/1/FIRE DET/LOOP A (7WD1).
- C. If the circuit breaker (7WD1) is open:
 - close it.
 - (1) If the circuit breaker trips:
 - disconnect the three units below: FDU-ENG1 (2WD1) ENG/APU FIRE PNL (1WD) BOARD-ANN LT TEST & INTFC (5LP)
 - close the circuit breaker.
 - (a) If the circuit breaker stays closed:
 - connect the units one by one until the circuit breaker trips
 - replace the defective unit:
 .for LRU 2WD1: (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001)

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for LRU 1WD: (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM
TASK 26-12-12-400-001)
for LRU 5LP: (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM
TASK 33-14-33-400-001).

- (b) If the circuit breaker trips again:
 - do a check for a short to ground between the circuit breaker (7WD1) and the three units (2WD1, 1WD, 5LP) (Ref. ASM 26-12/01).
 - 1 If there is a short to ground: - repair the defective wiring.
 - 2 If there is no short to ground:
 replace the C/B-ENGINE/1/FIRE DET/LOOP A (7WD1).
- (2) Connect all the units.
- D. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-824

Loss of the Power Supply of the Engine 1 FDU (Loop B)

1. Possible Causes

- FDU-ENG1 (2WD1)
- ENG/APU FIRE PNL (1WD)
- BOARD-ANN LT TEST & INTFC (18LP)
- wiring of the 28VDC signal from the circuit breaker 8WD1 to the engine 1
- wiring of the ground signal at the engine 1 FDU
- C/B-ENGINE/ENG 1/FIRE DET/LOOP B (8WD1)
- short to ground between the circuit breaker (8WD1) and the three units (2WD1, 1WD, 18LP)

2. Job Set-up Information

A. Referenced Information

	REFE	RENCE	DESIGNATION	
	AMM 26-12-00-71	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System	
			(CFDS)	
	AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
	AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
	AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)	
	AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01	· , ,,,,,,,,	

3. Fault Confirmation

A. Test

- (1) Do the operational test of the engine fire and overheat detection from Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).
 - (a) If the circuit breaker 8WD1 is open, refer to Para. 4.C.

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4. Fault Isolation

A. Table of the circuit breakers used in this procedure:

PANEL DESIGNATION

IDENT. LOCATION

121VU ENGINE/ENG1/FIRE DET/LOOP B

8WD1 Q38

R **ON A/C 201-225, 227-227, 229-253, 276-299, 426-450, 476-480, 503-549, R 551-564, 701-749,

......

- B. If the circuit breaker 8WD1 is closed, and if the test gives the maintenance message CHECK FDU ENG 1 SUPPLY:
 - do a check for 28VDC at the engine 1 FDU pin B/A.
 - (1) If there is 28VDC:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (2) If there is no 28VDC:
 - do a check of the wiring of the 28VDC signal from the circuit breaker 8WD1 to the engine 1 FDU (Ref. ASM 26-12/01).
 - (a) If there is no continuity:repair the above wiring.
 - (b) If there is continuity:
 - do a check of the wiring of the ground signal at the engine 1
 FDU pin B/B
 (Ref. ASM 26-12/01).
 - 1 If there is no continuity: - repair the above wiring.
 - 2 If there is continuity:
 replace the C/B-ENGINE/ENG 1/FIRE DET/LOOP B (8WD1).

**ON A/C 254-275, 451-475, 481-499, 565-599,

- B. If the circuit breaker 8WD1 is closed, and if the test gives the maintenance message CHECK FDU ENG 1 CHAN B SUPPLY:
 do a check for 28VDC at the engine 1 FDU pin B/A.
 - (1) If there is 28VDC:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).

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- (2) If there is no 28VDC:
 - do a check of the wiring of the 28VDC signal from the circuit breaker 8WD1 to the engine 1 FDU (Ref. ASM 26-12/01).
 - (a) If there is no continuity:repair the above wiring.
 - (b) If there is continuity:
 - do a check of the wiring of the ground signal at the engine 1
 FDU pin B/B
 (Ref. ASM 26-12/01).
 - 1 If there is no continuity:
 repair the above wiring.
 - 2 If there is continuity:
 replace the C/B-ENGINE/ENG 1/FIRE DET/LOOP B (8WD1).

**ON A/C ALL

- C. If the circuit breaker (8WD1) is open:
 close it.
 - (1) If the circuit breaker trips:
 - disconnect the three unit below: FDU-ENG1 (2WD1) ENG/APU FIRE PNL (1WD) BOARD-ANN LT TEST & INTFC (18LP)
 - close the circuit breaker.
 - (a) If the circuit breaker stays closed:
 - connect the units one by one until the circuit breaker trips
 - replace the defective unit:
 - for LRU 2WD1: (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001)
 - .for LRU 1WD: (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001)
 - for LRU 18LP: (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (b) If the circuit breaker trips again:
 - do a check for a short to ground between the circuit breaker (8WD1) and the three units (2WD1, 1WD, 18LP) (Ref. ASM 26-12/01).
 - 1 If there is a short to ground: - repair the defective wiring.
 - 2 If there is no short to ground:
 replace the C/B-ENGINE/ENG 1/FIRE DET/LOOP B (8WD1).

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- (2) Connect all the units.
- D. Do the test given in Para. 3.

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TASK 26-12-00-810-825

Loss of the Power Supply of the Engine 2 FDU (Loop A)

1. Possible Causes

- FDU-ENG2 (2WD2)
- ENG/APU FIRE PNL (1WD)
- BOARD-ANN LT TEST & INTFC (18LP)
- wiring of the 28VDC signal from the circuit breaker 7WD2 to the engine 2
 FDU
- wiring of the ground signal at the engine 2 FDU
- C/B-ENGINE/ENG 2/FIRE DET/LOOP A (7WD2)
- short to ground between the circuit breaker (7WD2) and the three units (2WD2, 1WD, 18LP)

2. Job Set-up Information

A. Referenced Information

	REFE	RENCE	DESIGNATION
	АММ	26-12-00-710-001	Operational Check of Loop/Squib
			Operational Check of Loop/Squib Removal of the ENG/APU Fire Panel (1WD)
		26-12-12-000-001	
	AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)
	AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
	AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and
₹			Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP, 8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)
	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and
			Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,
•			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)
	ASM	26-12/01	

3. Fault Confirmation

A. Test

R

R

- (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
 - (a) If the circuit breaker 7WD2 is open, refer to Para. 4.C.

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4. Fault Isolation

A. Table of the circuit breakers used in this procedure:

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PANEL DESIGNATION

IDENT. LOCATION

121VU ENGINE/ENG2/FIRE DET/LOOP A

7WD2 Q39

- B. If the circuit breaker 7WD2 is closed, and if the FIRE legend of the ENG 2 annunciator and the DISCH legend of the ENG 2/AGENT 2 pushbutton switch on the ENG/APU FIRE panel do not come on:
 - do a check for 28VDC at the pin A/A of the engine 2 FDU.
 - (1) If there is 28VDC:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (2) If there is no 28VDC:
 - do a check of the wiring of the 28VDC signal from the circuit breaker 7WD2 to the engine 2 FDU (Ref. ASM 26-12/01).
 - (a) If there is no continuity:
 - repair the above wiring.
 - (b) If there is continuity:
 - do a check of the wiring of the ground signal at the engine 2
 FDU pin B/B (Ref. ASM 26-12/01).
 - 1 If there is no continuity: - repair the above wiring.
 - 2 If there is continuity:
 replace the C/B-ENGINE/ENG 2/FIRE DET/LOOP A (7WD2).
- C. If the circuit breaker (7WD2) is open:
 - close it.
 - (1) If the circuit breaker trips:
 - disconnect the three units below: FDU-ENG2 (2WD2) ENG/APU FIRE PNL (1WD) BOARD-ANN LT TEST & INTFC (18LP)
 - close the circuit breaker.
 - (a) If the circuit brekear stays closed:
 - connect the units one by one until the circuit breaker trips
 - replace the defective unit:
 - for LRU 2WD2: (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001)
 - for LRU 1WD: (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001)

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. for LRU 18LP: (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).

- (b) If the circuit breaker trips again:
 - do a check for a short to ground between the circuit breaker (7WD2) and the three units (2WD2, 1WD, 18LP) (Ref. ASM 26-12/01).
 - 1 If there is a short to ground: - repair the defective wiring.
 - 2 If there is no short to ground:
 replace the C/B-ENGINE/ENG 2/FIRE DET/LOOP A (7WD2).
- (2) Connect all the units.
- D. Do the test given in Para. 3.

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TASK 26-12-00-810-826

Loss of the Power Supply of the Engine 2 FDU (Loop B)

1. Possible Causes

- FDU-ENG2 (2WD2)
- ENG/APU FIRE PNL (1WD)
- BOARD-ANN LT TEST & INTFC (5LP)
- wiring of the 28VDC signal from the circuit breaker 8WD2 to the engine 2
 FDU
- wiring of the ground signal at the engine 2 FDU
- C/B-ENGINE/2/FIRE DET/LOOP B (8WD2)
- short to ground between the circuit breaker (7WD2) and the three units (2WD2, 1WD, 5LP)

2. Job Set-up Information

A. Referenced Information

	REFE	RENCE	DESIGNATION
	AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat
			<pre>Detection with the Centralized Fault Display System (CFDS)</pre>
	AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)
	AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)
	AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
	AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)
	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)
	ASM	26-12/01	

3. Fault Confirmation

A. Test

- (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).
 - (a) If the circuit breaker 8WD2 is open, refer to Para. 4.C.

EFF: ALL

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4. Fault Isolation

A. Table of the circuit breakers used in this procedure:

PANEL DESIGNATION

IDENT. LOCATION

A07

49VU ENGINE/2/FIRE DET/LOOP B

8WD2

121VU ENGINE/ENG2/FIRE DET/LOOP A

7WD2 **Q39**

R **ON A/C 201-225, 227-227, 229-253, 276-299, 426-450, 476-480, 503-549, R 551-564, 701-749,

- B. If the circuit breaker 8WD2 is closed, and if the test gives the maintenance message CHECK FDU ENG 2 SUPPLY:
 - do a check for 28VDC at the pin B/A of the engine 2 FDU.
 - (1) If there is 28VDC:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (2) If there is no 28VDC:
 - do a check of the wiring of the 28VDC signal from the circuit breaker 8WD2 to the engine 2 FDU (Ref. ASM 26-12/01).
 - (a) If there is no continuity:
 - repair the above wiring.
 - (b) If there is continuity:
 - do a check of the wiring of the ground signal at the engine 2 FDU pin B/B (Ref. ASM 26-12/01).
 - 1 If there is no continuity:
 - repair the above wiring.
 - 2 If there is continuity:
 - replace the C/B-ENGINE/2/FIRE DET/LOOP B (8WD2).

**ON A/C 254-275, 451-475, 481-499, 565-599,

- B. If the circuit breaker 8WD2 is closed, and if the test gives the maintenance message CHECK FDU ENG 2 CHAN B SUPPLY:
 - do a check for 28VDC at the pin B/A of the engine 2 FDU.
 - (1) If there is 28VDC:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).

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- (2) If there is no 28VDC:
 - do a check of the wiring of the 28VDC signal from the circuit breaker 8WD2 to the engine 2 FDU (Ref. ASM 26-12/01).
 - (a) If there is no continuity:
 repair the above wiring.
 - (b) If there is continuity:
 - do a check of the wiring of the ground signal at the engine 2
 FDU pin B/B (Ref. ASM 26-12/01).
 - 1 If there is no continuity: - repair the above wiring.
 - 2 If there is continuity:
 replace the C/B-ENGINE/2/FIRE DET/LOOP B (8WD2).

**ON A/C ALL

- C. If the circuit breaker (8WD2) is open:
 close it.
 - (1) If the circuit breaker trips:
 - disconnect the three units below:
 FDU-ENG2 (2WD2)
 ENG/APU FIRE PNL (1WD)
 BOARD-ANN LT TEST & INTFC (5LP)
 - close the circuit breaker.
 - (a) If the circuit breaker stays closed:
 - connect the units one by one until the circuit breaker trips
 - replace the defective unit:
 - . for LRU 2WD2: (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001)
 - for LRU 1WD: (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001)
 - . for LRU 5LP: (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (b) If the circuit breaker trips again:
 - do a check for a short to ground between the circuit breaker (7WD2) and the three units (2WD2, 1WD, 5LP) (Ref. ASM 26-12/01).
 - 1 If there is a short to ground: - repair the defective wiring.
 - 2 If there is no short to ground:
 replace the C/B-ENGINE/2/FIRE DET/LOOP B (8WD2).
 - (2) Connect all the units.

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D. Do the test given in Para. 3.

EFF: ALL
SROS

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TASK 26-12-00-810-827

Loss of the FIRE TEST (LOOP A) Discrete Input from the Engine 1 FDU

1. Possible Causes

- ENG/APU FIRE PNL (1WD)
- wiring of the 28VDC signal from the circuit breaker (7WD1) to the ENG/APU FIRE panel (1WD)
- wiring of the FIRE TEST (LOOP A) discrete from the engine 1 FDU (2WD1) to the ENG/APU FIRE panel (1WD)

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-00-710-001	Operational Check of Loop/Squib	
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
ΔSM	26-12/02		

3. Fault Confirmation

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the ENG 1 FIRE indication does not come into view on the upper ECAM DU and if the FIRE legend of the ENG 1 annunciator does not come on on the ENG panel 115VU:
 - do a check to see if the DISCH legend of the ENG 1/AGENT 1 pushbutton switch on the ENG/APU FIRE panel (1WD) comes on during the fire test.
 - (1) If the DISCH legend does not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the 28VDC signal from the circuit breaker (7WD1) to the ENG/APU FIRE panel (1WD), pin A/M (Ref. ASM 26-12/02).

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- (2) If the DISCH legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the FIRE TEST (LOOP A) discrete from the engine 1 FDU (2WD1) to the ENG/APU FIRE panel (1WD) (Ref. ASM 26-12/02).
- B. Do the test given in Para. 3.

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EFF:

TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-828

Loss of the FIRE TEST (LOOP B) Discrete Input from the Engine 1 FDU

1. Possible Causes

- ENG/APU FIRE PNL (1WD)
- wiring of the 28VDC signal from the circuit breaker (8WD1) to the ENG/APU
 FIRE panel (1WD)
- wiring of the FIRE TEST (LOOP B) discrete from the engine 1 FDU (2WD1) to the ENG/APU FIRE panel (1WD)

2. Job Set-up Information

A. Referenced Information

REFERENCE	DESIGNATION
AMM 26-12-00-710-001 AMM 26-12-12-000-001 AMM 26-12-12-400-001 ASM 26-12/02	Operational Check of Loop/Squib Removal of the ENG/APU Fire Panel (1WD) Installation of the ENG/APU Fire Panel (1WD)

3. Fault Confirmation

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the ENG 1 FIRE indication does not come into view on the upper ECAM DU:
 - do a check to see if the DISCH legend of the ENG 1/AGENT 2 pushbutton switch on the ENG/APU FIRE panel (1WD) comes on during the fire test.
 - (1) If the DISCH legend does not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the 28VDC signal from the circuit breaker (8WD1) to the ENG/APU FIRE panel (1WD), pin B/M (Ref. ASM 26-12/02).

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- (2) If the DISCH legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the FIRE TEST (LOOP B) discrete from the engine 1 FDU (2WD1) to the ENG/APU FIRE panel (1WD) (Ref. ASM 26-12/02).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-829

Loss of the FIRE TEST (LOOP A) Discrete Input from the Engine 2 FDU

1. Possible Causes

- ENG/APU FIRE PNL (1WD)
- wiring of the 28VDC signal from the circuit breaker (7WD2) to the ENG/APU FIRE panel (1WD)
- wiring of the FIRE TEST (LOOP A) discrete from the engine 2 FDU (2WD2) to the ENG/APU FIRE panel (1WD)

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-00-710-001	Operational Check of Loop/Squib	
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
ΔSM	26-12/02		

3. Fault Confirmation

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the ENG 2 FIRE indication does not come into view on the upper ECAM DU and if the FIRE legend of the ENG/2 FIRE/FAULT annunciator does not come on on the ENG panel 115VU:
 - do a check to see if the DISCH legend of the ENG 2 AGENT 2 pushbutton switch on the ENG/APU FIRE panel (1WD) comes on during the fire test.
 - (1) If the DISCH legend does not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the 28VDC signal from the circuit breaker (7WD2) to the ENG/APU FIRE panel (1WD), pin C/M (Ref. ASM 26-12/02).

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- (2) If the DISCH legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the FIRE TEST (LOOP A) discrete from the engine 2 FDU (2WD2) to the ENG/APU FIRE panel (1WD) (Ref. ASM 26-12/02).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-830

Loss of the FIRE TEST (LOOP B) Discrete Input from the Engine 2 FDU

1. Possible Causes

- ENG/APU FIRE PNL (1WD)
- wiring of the 28VDC signal from the circuit breaker 8WD2 to the ENG/APU
 FIRE panel (1WD)
- wiring of the FIRE TEST (LOOP B) discrete from the engine 2 FDU (2WD2) to the ENG/APU FIRE panel (1WD)

2. Job Set-up Information

A. Referenced Information

REFERENCE	DESIGNATION
AMM 26-12-00-710-001 AMM 26-12-12-000-001 AMM 26-12-12-400-001 ASM 26-12/02	Operational Check of Loop/Squib Removal of the ENG/APU Fire Panel (1WD) Installation of the ENG/APU Fire Panel (1WD)

3. Fault Confirmation

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the ENG 2 FIRE indication does not come into view on the upper ECAM DU:
 - do a check to see if the DISCH legend of the ENG 2 AGENT 1 pushbutton switch on the ENG/APU FIRE panel (1WD) comes on during the fire test.
 - (1) If the DISCH legend does not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the 28VDC signal from the circuit breaker 8WD2 to the ENG/APU FIRE panel (1WD), pin D/M (Ref. ASM 26-12/02).

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- (2) If the DISCH legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the FIRE TEST (LOOP B) discrete from the engine 2 FDU (2WD2) to the ENG/APU FIRE panel (1WD) (Ref. ASM 26-12/02).
- B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-831

Loss of the INOP LOOP A Discrete from the Engine 1 FDU

1. Possible Causes

- FDU-ENG1 (2WD1)
- wiring of the INOP LOOP A discrete from the engine 1 FDU (2WD1) to the first terminal block

2. Job Set-up Information

A. Referenced Information

REFERENCE	DESIGNATION
AMM 26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM 26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM 26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
ASM 26-12/01	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 1 LOOP A WARN CKT:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the INOP LOOP A discrete from the engine 1 FDU (2WD1) to the first terminal block (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-832

Loss of the INOP LOOP B Discrete from the Engine 1 FDU

1. Possible Causes

- FDU-ENG1 (2WD1)
- wiring of the INOP LOOP B discrete from the engine 1 FDU (2WD1) to the first terminal block

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System
AMM	26-12-34-000-001	(CFDS) Removal of the Engine Fire-Detection Unit (FDU)
AMM	26-12-34-400-001	(2WD1,2WD2) Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
ASM	26-12/01	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 1 LOOP B WARN
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the INOP LOOP B discrete from the engine 1 FDU (2WD1) to the first terminal block (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-833

Loss of the INOP LOOP A Discrete from the Engine 2 FDU

1. Possible Causes

- FDU-ENG2 (2WD2)
- wiring of the INOP LOOP A discrete from the engine 2 FDU (2WD2) to the first terminal block

2. Job Set-up Information

A. Referenced Information

REFE	RENCE	DESIGNATION
A MM	24 12 00 740 002	Operational Test of the Fasine Fire and Overheat
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
ASM	26-12/01	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 2 LOOP A WARN
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the INOP LOOP A discrete from the engine 2 FDU (2WD2) to the first terminal block (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-834

Loss of the INOP LOOP B Discrete from the Engine 2 FDU

1. Possible Causes

- FDU-ENG2 (2WD2)
- wiring of the INOP LOOP B discrete from the engine 2 FDU (2WD2) to the first terminal block

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System
AMM	26-12-34-000-001	(CFDS) Removal of the Engine Fire-Detection Unit (FDU)
AMM	26-12-34-400-001	(2WD1,2WD2) Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
ASM	26-12/01	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 2 LOOP B WARN CKT:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the INOP LOOP B discrete from the engine 2 FDU (2WD2) to the first terminal block (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-835

Loss of the Engine 1 FDU Pin-Programming

1. Possible Causes

- FDU-ENG1 (2WD1)
- wiring of the IDENTIFICATION discrete from the engine 1 FDU to the ground point

2. Job Set-up Information

A. Referenced Information

REFERENCE	DESIGNATION
AMM 26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM 26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM 26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
ASM 26-12/01	

3. Fault Confirmation

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 1 PIN PROG:
 replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the IDENTIFICATION discrete from the engine 1 FDU to the ground point (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-836

Loss of the Engine 2 FDU Pin-Programming

1. Possible Causes

- FDU-ENG2 (2WD2)
- wiring of the IDENTIFICATION discrete from the engine 2 FDU to the ground point

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
ASM	26-12/01	

3. Fault Confirmation

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU ENG 2 PIN PROG:
 replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring of the IDENTIFICATION discrete from the engine 2 FDU to the ground point (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

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EFF:

TROUBLE SHOOTING MANUAL

TASK 26-12-00-810-837

Loss of the FDU Pin-Programming

1. Possible Causes

- FDU-APU (13WG)
- FDU-ENG1 (2WD1)
- FDU-ENG2 (2WD2)
- wiring of the IDENTIFICATION discretes of the APU FDU
- wiring of the IDENTIFICATION discretes of the engine 1 FDU and the engine 2 FDU

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)
AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>
ASM	26-12/01	
ASM	26-13/01	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU PIN PROG:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001)
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001)
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).

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- (1) If the fault continues:
 - do a check and repair the wiring of the IDENTIFICATION discretes of the APU FDU from pins A/N and A/L to the ground point (Ref. ASM 26-13/01)
 - do a check and repair the wiring of the IDENTIFICATION discretes of the engine 1 FDU and the engine 2 FDU from pins A/L to the ground point (Ref. ASM 26-12/01).
- B. Do the test given in Para. 3.

EFF: ALL
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TASK 26-12-00-810-838

Loss of the FDU 1 Channel A Power Supply

- 1. Possible Causes
- 2. Job Set-up Information
 - A. Referenced Information

Power Supply Interruption

REFERENCE

DESIGNATION

3. Fault Confirmation

24-00-00-810-802

R

A. Test Not applicable.

R

4. Fault Isolation

R

- A. If there is the maintenance message (on the maintenance Post Flight Report) POWER SUPPLY INTERRUPT:
 - do the trouble shooting procedure (Ref. TASK 24-00-00-810-802).

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EFF:

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TASK 26-12-00-810-839

Loss of the FDU 2 Channel A Power Supply

- 1. Possible Causes
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE

DESIGNATION

24-00-00-810-802

Power Supply Interruption

3. Fault Confirmation

R

A. Test
Not applicable.

R

4. Fault Isolation

R

- A. If there is the maintenance message (on the maintenance Post Flight Report) POWER SUPPLY INTERRUPT:
 - do the trouble shooting procedure (Ref. TASK 24-00-00-810-802).

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R

TASK 26-12-00-810-840

Maintenance Test of the FDU 1 Not Possible

- 1. Possible Causes
 - FDU-ENG1 (2WD1)
 - CFDIU (1TW)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
AMM	31-32-34-000-001	Removal of the CFDIU (1TW)
AMM ASM	31-32-34-400-001 26-12/02	Installation of the CFDIU (1TW)

3. Fault Confirmation

R

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).
 - (a) If you cannot do the test:
 go to Para. 4.A.
 - (b) If you can do the test:- no maintenance action is necessary.

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R

4. Fault Isolation

R

- A. Remove the engine 1 FDU (2WD1):
 - make sure that there is no ground signal at the pin B/R of the engine 1 FDU (2WD1) on the wiring side (Ref. ASM 26-12/02).
 - (1) If there is no ground signal:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (2) If there is a ground signal:
 - remove the CFDIU (1TW)
 - make sure that there is no ground signal at the pin AA/12F of the CFDIU (1TW) on the wiring side (Ref. ASM 26-12/02).
 - (a) If there is no ground signal:
 - replace the CFDIU (1TW) (Ref. AMM TASK 31-32-34-000-001) and (Ref. AMM TASK 31-32-34-400-001)
 - install the engine 1 FDU (2WD1).
 - (b) If there is a ground signal:
 - do a check and repair the wiring between the CFDIU (1TW) pin AA/12F and the engine 1 FDU (2WD1) pin B/R (Ref. ASM 26-12/02)
 - install the CFDIU (1TW)
 - install the engine 1 FDU (2WD1).
- B. Do the test given in Para. 3.

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R

TASK 26-12-00-810-841

Maintenance Test of the FDU 2 Not Possible

- 1. Possible Causes
 - FDU-ENG2 (2WD2)
 - CFDIU (1TW)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
AMM	31-32-34-000-001	Removal of the CFDIU (1TW)
AMM ASM	31-32-34-400-001 26-12/02	Installation of the CFDIU (1TW)

3. Fault Confirmation

R

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).
 - (a) If you cannot do the test:
 go to Para. 4.A.
 - (b) If you can do the test:- no maintenance action is necessary.

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4. Fault Isolation

R

- A. Remove the engine 2 FDU (2WD2):
 - make sure that there is no ground signal at the pin B/R of the engine 2 FDU (2WD2) on the wiring side (Ref. ASM 26-12/02).
 - (1) If there is no ground signal:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).
 - (2) If there is a ground signal:
 - remove the CFDIU (1TW)
 - make sure that there is no ground signal at the pin AB/12E of the CFDIU (1TW) on the wiring side (Ref. ASM 26-12/02).
 - (a) If there is no ground signal:
 - replace the CFDIU (1TW) (Ref. AMM TASK 31-32-34-000-001) and (Ref. AMM TASK 31-32-34-400-001)
 - install the engine 2 FDU (2WD2).
 - (b) If there is a ground signal:
 - do a check and repair the wiring between the CFDIU (1TW) pin AB/12E and the engine 2 FDU (2WD2) pin B/R (Ref. ASM 26-12/02)
 - install the CFDIU (1TW)
 - install the engine 2 FDU (2WD1).
- B. Do the test given in Para. 3.

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R

TASK 26-12-00-810-842

Loss of Two ENG 1 Detection Loops

1. Possible Causes

- DET-FIRE, ENG 1 PYLON LOOP A (3WD1)
- DET-FIRE, FAN LOOP A (4000WD1)
- DET-FIRE, CORE LOOP A (4001WD1)
- wiring of Loop A I/P from the engine 1 FDU to the three loop A fire detectors

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	24-41-00-861-002	Energize the Aircraft Electrical Circuits from the External Power
AMM	24-41-00-862-002	De-energize the Aircraft Electrical Circuits Supplied from the External Power
AMM	26-12-00-200-001	Visual Inspection of the Engine Fire Detection System
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-15-000-041	Removal of the Fan Fire Detectors (4000WD1,4000WD2)
AMM	26-12-15-400-041	Installation of the Fan Fire Detectors (4000WD1,4000WD2)
AMM	26-12-16-000-001	Removal of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)
AMM	26-12-16-400-001	<pre>Installation of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)</pre>
AMM	26-12-17-000-040	Removal of the Core Fire Detectors (4001WD1, 4001WD2)
AMM	26-12-17-400-040	Installation of the Core Fire Detectors (4001WD1, 4001WD2)
AMM ASM	31-60-00-860-001 26-12/01	EIS Start Procedure

3. Fault Confirmation

R

- A. Job Set-Up
 - (1) Energize the aircraft electrical circuits (Ref. AMM TASK 24-41-00-861-002).

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- (2) Do the EIS start procedure (Upper ECAM DU and lower ECAM DU only) (Ref. AMM TASK 31-60-00-860-001).
- B. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

R

4. Fault Isolation

R

- A. If the test gives the maintenance message ENG1 FIRE LOOP A + LOOP B:
 do a visual inspection of the three loop A fire detectors (Ref. AMM TASK 26-12-00-200-001).
 - (1) If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-041) and (Ref. AMM TASK 26-12-15-400-041),
 - for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-040) and (Ref. AMM TASK 26-12-17-400-040).
 - (2) If there is no visual damage and if the fault continues:
 - disconnect the connector 2WD1-A from the engine 1 FDU (2WD1)
 - on the connector, on the wiring side, make sure that the equivalent resistance value between pins J and K is between 1425 ohms and 1575 ohms.
 - (a) If the equivalent resistance value is not correct and is:
 - ${\tt L}$ between 2137 ohms and 2363 ohms: there is one defective fire detector
 - between 4275 ohms and 4725 ohms: there are two defective fire detectors
 - infinite: there are three defective fire detectors or a defective wiring.
 - disconnect the electrical harness from the three loop A fire detectors
 - on the responder of each fire detector, make sure that the resistance value is between 4275 ohms and 4725 ohms:
 - between pins A/A and A/D for the engine 1 pylon loop A fire detector (3WD1) and the fan loop A fire detector (4000WD1),
 - . between pins A/A and A/C for the core loop A fire detector (4001WD1).

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- 1 If the resistance value is not correct:
 - replace the related fire detector:
 - . for DET-FIRE, ENG 1 PYLON LOOP A (3WD1) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001), . for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-
 - 15-000-041) and (Ref. AMM TASK 26-12-15-400-041),
 - . for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-040) and (Ref. AMM TASK 26-12-17-400-040),
 - connect the electrical connector 2WD1-A on the engine 1 FDU (2WD1).
- 2 If the resistance value is correct:
 - do a check and repair the wiring of Loop A I/P from the engine 1 FDU to the three loop A fire detectors (Ref. ASM 26-12/01).
- B. Do the test given in para. 3.

R

5. Close-up

R

- A. Put the aircraft back to its initial configuration.
 - (1) On the ECAM control panel, set the UPPER DISPLAY and LOWER DISPLAY potentiometers to OFF.
 - (2) De-energize the aircraft electrical circuits (Ref. AMM TASK 24-41-00-862-002).

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TASK 26-12-00-810-843

Loss of Two ENG 2 Detection Loops

1. Possible Causes

- DET-FIRE, ENG 2 PYLON LOOP A (3WD2)
- DET-FIRE, FAN LOOP A (4000WD1)
- DET-FIRE, CORE LOOP A (4001WD1)
- wiring of Loop A I/P from the engine 2 FDU to the three loop A fire detectors

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	24-41-00-861-002	Energize the Aircraft Electrical Circuits from the External Power
AMM	24-41-00-862-002	<pre>De-energize the Aircraft Electrical Circuits Supplied from the External Power</pre>
AMM	26-12-00-200-001	Visual Inspection of the Engine Fire Detection System
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-15-000-041	Removal of the Fan Fire Detectors (4000WD1,4000WD2)
AMM	26-12-15-400-041	<pre>Installation of the Fan Fire Detectors (4000WD1,4000WD2)</pre>
AMM	26-12-16-000-001	Removal of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)
AMM	26-12-16-400-001	<pre>Installation of the Pylon Fire Detectors (3WD1,3WD2,4WD1,4WD2)</pre>
AMM	26-12-17-000-040	Removal of the Core Fire Detectors (4001WD1, 4001WD2)
AMM	26-12-17-400-040	<pre>Installation of the Core Fire Detectors (4001WD1, 4001WD2)</pre>
AMM ASM	31-60-00-860-001 26-12/01	EIS Start Procedure

3. Fault Confirmation

R

- A. Job Set-Up
 - (1) Energize the aircraft electrical circuits (Ref. AMM TASK 24-41-00-861-002).

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- (2) Do the EIS start procedure (Upper ECAM DU and lower ECAM DU only) (Ref. AMM TASK 31-60-00-860-001).
- B. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

R

4. Fault Isolation

R

- A. If the test gives the maintenance message ENG2 FIRE LOOP A + LOOP B:
 do a visual inspection of the three loop A fire detectors (Ref. AMM TASK 26-12-00-200-001).
 - (1) If one or more fire detector(s) is (are) damaged:
 - replace it (them):
 - . for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001),
 - for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-15-000-041) and (Ref. AMM TASK 26-12-15-400-041),
 - . for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-040) and (Ref. AMM TASK 26-12-17-400-040).
 - (2) If there is no visual damage and if the fault continues:
 - disconnect the connector 2WD2-A from the engine 2 FDU (2WD2)
 - on the connector, on the wiring side, make sure that the equivalent resistance value between pins J and K is between 1425 ohms and 1575 ohms.
 - (a) If the equivalent resistance value is not correct and is:
 - between 2137 ohms and 2363 ohms: there is one defective fire detector
 - between 4275 ohms and 4725 ohms: there are two defective fire detectors
 - infinite: there are three defective fire detectors or a defective wiring.
 - disconnect the electrical harness from the three loop A fire detectors
 - on the responder of each fire detector, make sure that the resistance value is between 4275 ohms and 4725 ohms:
 - between pins A/A and A/D for the engine 2 pylon loop A fire detector (3WD2) and the fan loop A fire detector (4000WD1),
 - . between pins A/A and A/C for the core loop A fire detector (4001WD1).

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- 1 If the resistance value is not correct:
 - replace the related fire detector:
 - for DET-FIRE, ENG 2 PYLON LOOP A (3WD2) (Ref. AMM TASK 26-12-16-000-001) and (Ref. AMM TASK 26-12-16-400-001), for DET-FIRE, FAN LOOP A (4000WD1) (Ref. AMM TASK 26-12-
 - 15-000-041) and (Ref. AMM TASK 26-12-15-400-041),
 - for DET-FIRE, CORE LOOP A (4001WD1) (Ref. AMM TASK 26-12-17-000-040) and (Ref. AMM TASK 26-12-17-400-040),
 - connect the electrical connector 2WD2-A on the engine 2 FDU (2WD2).
- 2 If the resistance value is correct:
 - do a check and repair the wiring of Loop A I/P from the engine 2 FDU to the three loop A fire detectors (Ref. ASM 26-12/01).
- B. Do the test given in para. 3.

R

5. Close-up

R

- A. Put the aircraft back to its initial configuration.
 - (1) On the ECAM control panel, set the UPPER DISPLAY and LOWER DISPLAY potentiometers to OFF.
 - (2) De-energize the aircraft electrical circuits (Ref. AMM TASK 24-41-00-862-002).

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R

TASK 26-12-00-810-844

Loss of the ENG 1 Fire-Test Loop A Input

- 1. Possible Causes
 - FDU-ENG1 (2WD1)
 - wiring
 - ENG/APU FIRE PNL (5WD)
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System
AMM AMM	26-12-12-000-001 26-12-12-400-001 26-12-34-000-001	(CFDS) Removal of the ENG/APU Fire Panel (1WD) Installation of the ENG/APU Fire Panel (1WD) Removal of the Engine Fire Potention Unit (EDU)
AMM	26-12-34-400-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2) Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
ASM	26-12/02	(LNV 1/LNVL/

3. Fault Confirmation

R

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

R

4. Fault Isolation

R

- A. If the test gives the maintenance message CHECK FDU ENG1 FIRE TEST PB SW/FDU ENG1:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).

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- (1) If the fault continues:
 - do a check of the wiring between the ENG/APU fire panel 1WD pin A/N and the engine 1 FDU pin A/C and repair if necessary (Ref. ASM 26-12/02).
- (2) If the fault continues:
 - do a check and repair the wiring from the ENG/APU fire panel 1WD pin A/M to the circuit breaker 7WD1 (Ref. ASM 26-12/02).
- (3) If the fault continues:
 - replace the ENG/APU FIRE PNL (5WD)
 (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- B. Do the test given in Para. 3.

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R

TASK 26-12-00-810-845

Loss of the ENG 1 Fire-Test Loop B Input

- 1. Possible Causes
 - FDU-ENG1 (2WD1)
 - wiring
 - ENG/APU FIRE PNL (5WD)
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
АММ	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)
AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>
ASM	26-12/02	,

3. Fault Confirmation

R

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

R

4. Fault Isolation

R

- A. If the test gives the maintenance message CHECK FDU ENG1 FIRE TEST PB SW/FDU ENG1:
 - replace the FDU-ENG1 (2WD1) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).

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- (1) If the fault continues:
 - do a check of the wiring between the ENG/APU fire panel 1WD pin B/N and the engine 1 FDU pin B/C and repair if necessary (Ref. ASM 26-12/02).
- (2) If the fault continues:
 - do a check and repair the wiring from the ENG/APU fire panel 1WD pin B/M to the circuit breaker 8WD1 (Ref. ASM 26-12/02).
- (3) If the fault continues:
 - replace the ENG/APU FIRE PNL (5WD)
 (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- B. Do the test given in Para. 3.

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TASK 26-12-00-810-846

Loss of the ENG 2 Fire-Test Loop A Input

- 1. Possible Causes
 - FDU-ENG2 (2WD2)
 - wiring
 - ENG/APU FIRE PNL (5WD)
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
АММ	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)	
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)	
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>	
ASM	26-12/02		

3. Fault Confirmation

R

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

R

4. Fault Isolation

R

- A. If the test gives the maintenance message CHECK FDU ENG2 FIRE TEST PB SW/FDU ENG2:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).

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- (1) If the fault continues:
 - do a check of the wiring between the ENG/APU fire panel 1WD pin C/N and the engine 2 FDU pin A/C and repair if necessary (Ref. ASM 26-12/02).
- (2) If the fault continues:
 - do a check and repair the wiring from the ENG/APU fire panel 1WD pin C/M to the circuit breaker 7WD2 (Ref. ASM 26-12/02).
- (3) If the fault continues:
 - replace the ENG/APU FIRE PNL (5WD)
 (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- B. Do the test given in Para. 3.

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R

TASK 26-12-00-810-847

Loss of the ENG 2 Fire-Test Loop B Input

- 1. Possible Causes
 - FDU-ENG2 (2WD2)
 - wiring
 - ENG/APU FIRE PNL (5WD)
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
АММ	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)	
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
AMM	26-12-34-000-001	Removal of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)	
AMM	26-12-34-400-001	<pre>Installation of the Engine Fire-Detection Unit (FDU) (2WD1,2WD2)</pre>	
ASM	26-12/02		

3. Fault Confirmation

R

- A. Test
 - (1) Do the operational test of the engine fire and overheat detection from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 26-12-00-710-002).

R

4. Fault Isolation

R

- A. If the test gives the maintenance message CHECK FDU ENG2 FIRE TEST PB SW/FDU ENG2:
 - replace the FDU-ENG2 (2WD2) (Ref. AMM TASK 26-12-34-000-001) and (Ref. AMM TASK 26-12-34-400-001).

EFF: 254-275, 451-475, 481-499, 565-599,

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- (1) If the fault continues:
 - do a check of the wiring between the ENG/APU fire panel 1WD pin D/N and the engine 2 FDU pin B/C and repair if necessary (Ref. ASM 26-12/02).
- (2) If the fault continues:
 - do a check and repair the wiring from the ENG/APU fire panel 1WD pin D/M to the circuit breaker 8WD2 (Ref. ASM 26-12/02).
- (3) If the fault continues:
 - replace the ENG/APU FIRE PNL (5WD)
 (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- B. Do the test given in Para. 3.

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TROUBLE SHOOTING MANUAL

**ON A/C ALL

TASK 26-12-00-810-848

ENG 1 Fire Panel/Switch Illumination without Associated ECAM Warning

1. Possible Causes

- BOARD-ANN LT TEST & INTFC (5LP)
- BOARD-ANN LT TEST & INTFC (18LP)
- trace of water ingress or corrosion
- wiring

2. Job Set-up Information

A. Referenced Information

	REFERENCE		DESIGNATION	
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	<pre>Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,</pre>	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ΔSM	26-12/01		

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) to make sure that the ECAM warning is deployed on ECAM (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the legend of the ENG1 FIRE pushbutton switch is on and the FIRE legend of the ENG/1 FIRE/FAULT annunciator is on:
 - remove the annunciator light test and interface board (5LP) (Ref. AMM TASK 33-14-33-000-001),
 - do a visual inspection for any trace of water ingress or corrosion.

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- (1) If damage is found:
 - repair or replace as necessary the BOARD-ANN LT TEST & INTFC (5LP) (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring (Ref. ASM 26-12/01) between:
 the annunciator light test and interface board (5LP) pin A/17 and the ENG/APU FIRE panel (1WD) pin A/B
 - the annunciator light test and interface board (5LP) pin A/37 and the ANN ENG/1 FIRE/FAULT (5KS1) pin A/7.
- B. If the legend of the ENG1 FIRE pushbutton switch is on :
 - remove the annunciator light test and interface board (18LP) (Ref. AMM TASK 33-14-33-000-001),
 - do a visual inspection for any trace of water ingress or corrosion.
 - (1) If damage is found:
 - repair or replace as necessary the BOARD-ANN LT TEST & INTFC (18LP) (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring (Ref. ASM 26-12/01) between the annunciator light test and interface board (18LP) pin A/5 and the ENG/APU FIRE panel (1WD) pin B/B.
- C. Do the test given in Para. 3.

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TASK 26-12-00-810-849

ENG 2 Fire Panel/Switch Illumination without Associated ECAM Warning

1. Possible Causes

- BOARD-ANN LT TEST & INTFC (5LP)
- BOARD-ANN LT TEST & INTFC (18LP)
- trace of water ingress or corrosion
- wiring

2. Job Set-up Information

A. Referenced Information

	REFERENCE		DESIGNATION	
	AMM	26-12-00-710-001	Operational Check of Loop/Squib	
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and	
			Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and	
			Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
R			8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
	ASM	26-12/01	, , , ,	

3. Fault Confirmation

A. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) to make sure that the ECAM warning is deployed on ECAM (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the legend of the ENG2 FIRE pushbutton switch is on and the FIRE legend of the ENG/2 FIRE/FAULT annunciator is on:
 - remove the annunciator light test and interface board (5LP) (Ref. AMM TASK 33-14-33-000-001),
 - do a visual inspection for any trace of water ingress or corrosion.
 - (1) If damage is found:
 - repair or replace as necessary the BOARD-ANN LT TEST & INTFC (5LP)
 (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring (Ref. ASM 26-12/01) between:
 the annunciator light test and interface board (5LP) pin A/18 and the ENG/APU FIRE panel (1WD) pin D/B

EFF: ALL

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- the annunciator light test and interface board (5LP) pin A/10 and the ANN ENG/2 FIRE/FAULT (5KS2) pin A/7.
- B. If the legend of the ENG2 FIRE pushbutton switch is on :
 - remove the annunciator light test and interface board (18LP) (Ref. AMM TASK 33-14-33-000-001),
 - do a visual inspection for any trace of water ingress or corrosion.
 - (1) If damage is found:
 - repair or replace as necessary the BOARD-ANN LT TEST & INTFC (18LP) (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring (Ref. ASM 26-12/01) between the annunciator light test and interface board (18LP) pin A/1 and the ENG/APU FIRE panel (1WD) pin C/B.
- C. Do the test given in Para. 3.

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EFF: ALL

TROUBLE SHOOTING MANUAL

APU FIRE AND OVERHEAT DETECTION - FAULT ISOLATION PROCEDURES

TASK 26-13-00-810-801

APU Detection Loop A and/or Loop B Fault

- 1. Possible Causes
 - DETECTOR-APU FIRE (LOOP A) (21WG)
 - FDU-APU (13WG)
 - DETECTOR-APU FIRE (LOOP B) (22WG)
 - wiring

REFERENCE

- 2. Job Set-up Information
 - A. Referenced Information

R			
	AMM	26-13-15-000-001	Removal of the Sensing Elements 21WG and 22WG
	AMM	26-13-15-400-001	Installation of the Sensing Elements 21WG and 22WG
	AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)
	AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>
R R R	AMM	26-22-00-710-002	Operational Test of APU Auto-Fire-Exting. Circuit and the APU LP Fuel-Valve operation using each indiv. motor in turn and Test APU Emerg. Shutdown Circuit

DESIGNATION

3. Fault Confirmation

ASM 26-13/01

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R R

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- A. The APU FIRE DETECTION UNIT 13WG (p/n 3720-00-00) gives unwanted R R warning(s):
 - "CHECK FDU APU LOOP A WARN CKT" and/or
 - "CHECK FDU APU LOOP B WARN CKT"
 - The warnings are not related to a fault of the loop A or loop B.
 - The messages show during the aircraft electrical power-up of the power-up test or the CFDIU test.
 - The FDU gives the messages during each flight until the aircraft operation is fully stopped. Airbus supplies a new FDU that corrects this fault.
- R (1) To prevent the FDU to give messages on power-up:
 - (a) When the Electric Ground Supply energizes the aircraft: - Operate the switches only in this order:
 - 1 MAINT BUS to "ON"

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2 EXT PWR to "ON" R 3 BAT 1+2 to "ON" R (b) When the APU energizes the aircraft: R - Do the 'Operational Test of the APU Fire and Overheat Detection R with the CFDS' after the APU starts (Ref. AMM TASK 26-13-15-R 400-001). R NOTE: The Operational Test can cause an automatic stop of the APU. This is because of the relay configuration which is R R installed in the aircraft. - If FWC and FDU are connected and all other systems operate R satisfactorily, the unwanted message(s) clear(s). No R R maintenance work is necessary. R - If FWC and FDU are not connected and/or another system is defective the message(s) stay(s). Maintenance work is R R necessary. R B. Do the BITE Test of the APU Fire and Overheat Detection System (Ref. AMM R TASK 26-22-00-710-002). R

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message: CHECK APU FIRE LOOP A, and/or

CHECK FDU APU LOOP A WARN CKT

- replace the DETECTOR-APU FIRE (LOOP A) (21WG) (Ref. AMM TASK 26-13-15-000-001) and (Ref. AMM TASK 26-13-15-400-001).
- (1) If the fault continues:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
- (2) If the fault continues:
 - do a check and repair the wiring between the:
 FDU (13WG) connector A/K and DETECTOR (21WG) connector A/A,
 FDU (13WG) connector A/J and DETECTOR (21WG) connector A/E (Ref. ASM 26-13/01).

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- C. If the test gives the maintenance message: CHECK APU FIRE LOOP B and/or CHECK FDU APU LOOP B WARN CKT
 - replace the DETECTOR-APU FIRE (LOOP B) (22WG) (Ref. AMM TASK 26-13-15-000-001) and (Ref. AMM TASK 26-13-15-400-001).
 - (1) If the fault continues:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (2) If the fault continues:
 - do a check and repair the wiring between the:
 FDU (13WG) connector B/K and DETECTOR (22WG) connector A/A,
 FDU (13WG) connector B/J and DETECTOR (22WG) connector A/E (Ref. ASM 26-13/01).
- D. If the test gives the maintenance message FDU APU:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring between the:
 FDU (13WG) connector A/A and C/B (1WG),
 FDU (13WG) connector B/A and C/B (2WG),
 FDU (13WG) connector A/B and GND,
 FDU (13WG) connector B/N and GND,
 FDU (13WG) connector B/B and GND (Ref. ASM 26-13/01).
- E. Do the test as given in the Para. 3.A.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TROUBLE SHOOTING MANUAL

TASK 26-13-00-810-802

APU Loop A and/or Loop B Fire Warning Signal Output

- 1. Possible Causes
 - FDU-APU (13WG)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat Detection System
AMM	26-13-15-000-001	Removal of the Sensing Elements 21WG and 22WG
AMM	26-13-15-400-001	Installation of the Sensing Elements 21WG and 22WG
AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)
AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>
AMM	31-50-00-710-001	Ground Scanning of the Central Warning System
ASM	26-13/01	- ·

3. Fault Confirmation

R R

R R

R R

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- A. The APU FIRE DETECTION UNIT 13WG (p/n 3720-00-00) gives unwanted R R warning(s):
 - "CHECK FDU APU LOOP A WARN CKT" and/or
 - "CHECK FDU APU LOOP B WARN CKT".
 - The warnings are not related to a fault of the loop A or loop B.
 - The messages show during the aircraft electrical-power up of the power-up test or the CFDIU test.
 - The FDU gives the messages during each flight until the aircraft operation is fully stopped. Airbus supplies a new FDU that corrects this fault.
 - (1) To prevent the FDU to give messages on power-up:
- R (a) When the Electric Ground Supply energizes the aircraft: R
 - Operate the switches only in this order:
- 1 MAINT BUS to "ON" R
- 2 EXT PWR to "ON" R
- R 3 BAT 1+2 to "ON"

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- (b) When the APU energizes the aircraft: R R - Do the 'Operational Test of the APU Fire and Overheat Detection with the CFDS' after the APU starts (Ref. AMM TASK 26-13-15-R 400-001). R NOTE: The Operational Test can cause an automatic stop of the R APU. This is because of the relay configuration which is R R installed in the aircraft. R - If FWC and FDU are connected and all other systems operate R satisfactorily, the unwanted message(s) clear(s). No R maintenance work is necessary. R - If FWC and FDU are not connected and/or another system is
 - B. Do the operational test of the APU fire and overheat detection system (Ref. AMM TASK 26-13-00-710-001).

defective, the message(s) stay(s). Maintenance work is

4. Fault Isolation

R R

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message:
 CHECK FDU APU FIRE WARN CKT
 and/or
 CHECK FDU APU FIRE A WARN CKT
 and/or
 CHECK FDU APU FIRE B WARN CKT

necessary.

- replace the APU fire/overheat detector (21WG) and/or the APU fire/overheat detector (22WG) (Ref. AMM TASK 26-13-15-000-001) and (Ref. AMM TASK 26-13-15-400-001).
- (1) If the fault continues:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
- (2) If the fault continues:
 - do the operational test of the central warning system (Ref. AMM TASK 31-50-00-710-001).
 - (a) If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message. trouble
- (3) If the fault continues:
 - do a check and repair the wiring between the:
 FDU (13WG) connector A/E and FWC (1WW1) connector AA/5C,
 FDU (13WG) connector A/M and FWC (1WW1) connector AA/4E,
 FDU (13WG) connector B/L and FWC (1WW1) connector AD/4G,

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FDU (13WG) connector B/E and FWC (1WW1) connector AD/5E, FDU (13WG) connector B/N and GND, FDU (13WG) connector B/B and GND, FDU (13WG) connector A/B and GND (Ref. ASM 26-13/01).
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C. Do the test as given in the Para. 3.A.

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: ALL
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TROUBLE SHOOTING MANUAL

TASK 26-13-00-810-804

APU Power Supply to the FDU Channel A and/or B

- 1. Possible Causes
 - FDU-APU (13WG)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat
		Detection System
AMM	26-13-15-400-001	Installation of the Sensing Elements 21WG and 22WG
AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)
AMM	26-13-34-400-001	Installation of the APU Fire-Detection Unit (FDU)
		(13WG)
ASM	26-13/01	

3. Fault Confirmation

R R

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R R

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- A. The APU FIRE DETECTION UNIT 13WG (p/n 3720-00-00) gives unwanted R R warning(s):
 - "CHECK FDU APU LOOP A WARN CKT" and/or
- R "CHECK FDU APU LOOP B WARN CKT"
 - The warnings are not related to a fault of the loop A or loop B.
 - The messages show during the aircraft electrical power-up of the power-up test or the CFDIU test.
 - The FDU gives the messages during each flight until the aircraft operation is fully stopped. Airbus supplies a new FDU that corrects this fault.
- R (1) To prevent the FDU to give messages on power up:
- R (a) When the Electric Ground Supply energizes the aircraft: R
 - Operate the switches only in this order:
- 1 MAINT BUS to "ON" R
- 2 EXT PWR to "ON" R
- 3 BAT 1+2 to "ON" R

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	MOODEL SHOOTING MANOAL
R R	(b) When the APU energizes the aircraft:Do the 'Operational Test of the APU Fire and Overheat Detection
R R	with the CFDS' after the APU starts (Ref. AMM TASK 26-13-15-400-001).
R R	NOTE: The Operational Test can cause an automatic stop of the APU. This is because of the relay configuration which is
R	installed in the aircraft.
R	- If FWC and FDU are connected and all other systems operate
R	satisfactorily, the unwanted message(s) clear(s). No
R	maintenance work is necessary.
R	 If FWC and FDU are not connected and/or another system is
R	defective, the message(s) stay(s). Maintenance work is
R	necessary.

B. Do the operational test of the APU fire and overheat detection system (Ref. AMM TASK 26-13-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message CHECK FDU APU LOOP A/B NO DATA FROM FDU APU
 - do a check for 28 VDC power supply to the FDU-APU (13WG) connector A/A (Ref. ASM 26-13/01).
 - (1) If there is no 28 VDC:
 - do a check and repair the wiring if necessary between the:
 FDU (13WG) connector A/A and CB (1WG),
 FDU (13WG) connector B/N and GND,
 FDU (13WG) connector B/B and GND,
 FDU (13WG) connector A/B and GND (Ref. ASM 26-13/01).
 - (2) If there is approx. 28 VDC:
 - replace the FDU APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
- C. If the test gives the maintenance message: CHECK FDU APU SUPPLY and/or

POWER SUPPLY INTERRUPT

 do a check for 28 VDC power supply to the FDU-APU (13WG) connector B/A (Ref. ASM 26-13/01).

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- (1) If there is no 28 VDC:
 - do a check and repair the wiring if necessary between the: FDU (13WG) connector B/A and CB (2WG), FDU (13WG) connector B/N and GND, FDU (13WG) connector B/B and GND, FDU (13WG) connector A/B and GND (Ref. ASM 26-13/01).
- (2) If there is approx. 28 VDC:
 - replace the FDU APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
- D. Do the test as given in the Para. 3.A.

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: ALL
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| SROS

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TROUBLE SHOOTING MANUAL

TASK 26-13-00-810-805

LGCIU Signal Mismatch

- 1. Possible Causes
- R aircraft wiring
 - 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat Detection System
AMM	32-69-00-740-001	BITE Check Landing Gear Control Interface Unit (LGCIU) using MCDU to Ensure that Continuous BITE is Operative

3. Fault Confirmation

A. Do the operational test of the APU fire and overheat detection system (Ref. AMM TASK 26-13-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message CHECK FDU APU LGCIU INTFC:
 do the BITE test of the landing gear (Ref. AMM TASK 32-69-00-740-001).
 - (1) If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
 - (2) If the fault continues:
 - do a check and repair the aircraft wiring if necessary between the:
 FDU (13WG) connector A/D and LGCIU 1 (5GA1) connector AB/2B,
 FDU (13WG) connector B/D and LGCIU 2 (5GA2) connector AB/2B.
- C. Do the test as given in the Para. 3.A.

5. Close-up

SROS

R

A. Put the aircraft back to its initial configuration.

EFF: ALL

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TROUBLE SHOOTING MANUAL

TASK 26-13-00-810-806

Loss of the INOP LOOP A discrete from the APU FDU

- 1. Possible Causes
 - FDU-APU (13WG)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat Detection System
AMM	26-13-15-400-001	Installation of the Sensing Elements 21WG and 22WG
AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)
AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>
ASM	26-13/01	
AWM	31-52-18	

3. Fault Confirmation

R

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R R

R R

R

R

- A. The APU FIRE DETECTION UNIT 13WG (p/n 3720-00-00) gives unwanted R R warning(s): "CHECK FDU APU LOOP A WARN CKT" R
 - and/or
 - "CHECK FDU APU LOOP B WARN CKT"
 - The warnings are not related to a fault of the loop A or loop B.
 - The messages show during the aircraft electrical power-up at the power-up test or the CFDIU test.
 - The FDU gives the messages during each flight until the aircraft operation is fully stopped. Airbus supplies a new FDU that corrects this fault.
- R (1) To prevent the FDU to give messages on power up:
- (a) When the Electric Ground Supply energizes the aircraft: R
 - Operate the switches only in this order:
- R 1 MAINT BUS to "ON"
- 2 EXT PWR to "ON" R
- 3 BAT 1+2 to "ON" R

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- R (b) When the APU energizes the aircraft: R - Do the 'Operational Test of the APU Fire and Overheat Detection with the CFDS' after the APU starts (Ref. AMM TASK 26-13-15-R 400-001). R NOTE: The Operational Test can cause an automatic stop of the R APU. This is because of the relay configuration which is R installed in the aircraft. R - If FWC and FDU are connected and all other systems operate satisfactorily, the unwanted message(s) clear(s). No R R maintenance work is necessary. R - If FWC and FDU are not connected and/or another system is R defective, the message(s) stay(s). Maintenance work is necessary.
 - B. Do the operational test of the APU fire and overheat detection system (Ref. AMM TASK 26-13-00-710-001).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU APU LOOP A WARN CKT:
 replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (1) If the fault continues:
 - do a check and repair of the wiring between
 FDU 13WG-A/M and the first terminal block
 (Ref. ASM 26-13/01) and (Ref. AWM 31-52-18).
- B. Do the test as given in the Para. 3.A.

EFF: ALL 26-13-00

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TASK 26-13-00-810-807

Loss of the INOP LOOP B discrete from the APU FDU

- 1. Possible Causes
 - FDU-APU (13WG)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat Detection System
AMM	26-13-15-400-001	Installation of the Sensing Elements 21WG and 22WG
AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)
AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>
ASM	26-13/01	
AWM	31-52-18	

3. Fault Confirmation

R R

R

R R

R R

R

R

- A. The APU FIRE DETECTION UNIT 13WG (p/n 3720-00-00) gives unwanted R R warning(s):
 - "CHECK FDU APU LOOP A WARN CKT" and/or
 - "CHECK FDU APU LOOP B WARN CKT"
 - The warnings are not related to a fault of the loop A or loop B.
 - The messages show during the aircraft electrical power-up of the power-up test or the CFDIU test.
 - The FDU gives the messages during each flight until the aircraft operation is fully stopped. Airbus supplies a new FDU that corrects this fault.
- R (1) To prevent the FDU to give messages on power up:
- (a) When the Electric Ground Supply energizes the aircraft: R
 - Operate the switches only in this order:
- R 1 MAINT BUS to "ON"
- 2 EXT PWR to "ON" R
- 3 BAT 1+2 to "ON" R

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- R (b) When the APU energizes the aircraft: R - Do the 'Operational Test of the APU Fire and Overheat Detection with the CFDS' after the APU starts (Ref. AMM TASK 26-13-15-R 400-001). R NOTE: The Operational Test can cause an automatic stop of the R APU. This is because of the relay configuration which is R installed in the aircraft. R - If FWC and FDU are connected and all other systems operate satisfactorily, the unwanted message(s) clear(s). No R R maintenance work is necessary. R - If FWC and FDU are not connected and/or another system is R defective, the message(s) stay(s). Maintenance work is necessary.
 - B. Do the operational test of the APU fire and overheat detection system (Ref. AMM TASK 26-13-00-710-001).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU APU LOOP B WARN CKT:
 replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (1) If the fault continues:
 - do a check and repair of the wiring between
 FDU 13WG-B/L and the first terminal block
 (Ref. ASM 26-13/01) and (Ref. AWM 31-52-18).
- B. Do the test as given in the Para. 3.A.

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TASK 26-13-00-810-808

Loss of the columns 1 and 3 of the legend of the APU FIRE Pushbutton-Switch

1. Possible Causes

- BOARD-ANN LT TEST & INTFC (5LP)
- ENG/APU FIRE PNL (1WD)
- aircraft wiring

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat Detection System	
AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
AMM	33-14-33-400-001	8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP) Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
		8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
ASM	26-13/01		
ASM	33-14/10		

3. Fault Confirmation

A. Do the operational test of the APU Fire and Overheat Detection System (Ref. AMM TASK 26-13-00-710-001).

4. Fault Isolation

- A. If the columns 1 and 3 of the legend of the APU FIRE pushbutton-switch do not come on during the test:
 - on overhead panel 25VU, set the ANN LT switch to TEST and do a check if the columns 1 and 3 of the legend of the APU FIRE pushbutton-switch come on
 - (1) If the columns 1 and 3 of the legend come on:
 - replace the BOARD-ANN LT TEST & INTFC (5LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair of the aircraft wiring from: the BOARD-ANN LT TEST & INTFC (5LP) A/14 to the next terminal block;

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the BOARD-ANN LT TEST & INTFC (5LP) A/15 to the next terminal block; (Ref. ASM 33-14/10).

- (2) If the columns 1 and 3 of the legend do not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair of the aircraft wiring from: the ENG/APU FIRE PNL (1WD) E/A to the next terminal block; the ENG/APU FIRE PNL (1WD) E/B to the BOARD-ANN LT TEST & INTFC (5LP) A/13; (Ref. ASM 26-13/01).
- B. Do the test given in para. 3.

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TASK 26-13-00-810-809

Loss of the columns 2 and 4 of the legend of the APU FIRE Pushbutton-Switch

1. Possible Causes

- BOARD-ANN LT TEST & INTFC (2LP)
- ENG/APU FIRE PNL (1WD)
- aircraft wiring

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat Detection System	
AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP, 8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP,	
		8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)	
ASM	26-13/01		
ASM	33-14/05		

3. Fault Confirmation

A. Do the operational test of the APU Fire and Overheat Detection System (Ref. AMM TASK 26-13-00-710-001).

4. Fault Isolation

- A. If the columns 2 and 4 of the legend of the APU FIRE pushbutton-switch do not come on during the test:
 - on overhead panel 25VU, set the ANN LT switch to TEST and do a check if the columns 2 and 4 of the legend of the APU FIRE pushbutton-switch come on.
 - (1) If the columns 2 and 4 of the legend come on:
 - replace the BOARD-ANN LT TEST & INTFC (2LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair of the aircraft wiring from: the BOARD-ANN LT TEST & INTFC (2LP) A/38 to the next terminal block;

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the BOARD-ANN LT TEST & INTFC (2LP) A/39 to the next terminal block; (Ref. ASM 33-14/05).

- (2) If the columns 2 and 4 of the legend do not come on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - do a check and repair of the aircraft wiring from: the ENG/APU FIRE PNL (1WD) F/A to the next terminal block; the ENG/APU FIRE PNL (1WD) F/B to the BOARD-ANN LT TEST & INTFC (2LP) A/37; (Ref. ASM 26-13/01).
- B. Do the test given in para. 3.

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TASK 26-13-00-810-810

Loss of APU Fire- Test LOOP A

- 1. Possible Causes
 - FDU-APU (13WG)
 - ENG/APU FIRE PNL (1WD)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat Detection System	
AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)	
AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>	
ASM	26-13/01		

3. Fault Confirmation

A. Do the operational test of the APU fire and overheat detection system (Ref. AMM TASK 26-13-00-710-001).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU APU FIRE TEST PB SW/FDU APU:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (1) If the fault continues:
 - do a check of the wiring between the ENG/APU fire panel 1WD pin F/M and the FDU APU pin A/C and repair if necessary (Ref. ASM 26-13/01).
 - (2) If the fault continues:
 - do a check and repair the wiring from the ENG/APU fire panel 1WD pin F/M to the circuit breaker 1WG(Ref. ASM 26-13/01).
 - (3) If the fault continues:
 - replace the ENG/APU FIRE PNL (1WD)
 (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).

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B. Do the test given in para. 3.

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TASK 26-13-00-810-811

Loss of APU Fire- Test LOOP B

- 1. Possible Causes
 - FDU-APU (13WG)
 - ENG/APU FIRE PNL (1WD)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat Detection System	
AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)	
AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>	
ASM	26-13/01		

3. Fault Confirmation

A. Do the operational test of the APU fire and overheat detection system (Ref. AMM TASK 26-13-00-710-001).

4. Fault Isolation

- A. If the test gives the maintenance message CHECK FDU APU FIRE TEST PB SW/FDU APU:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (1) If the fault continues:
 - do a check of the wiring between the ENG/APU fire panel 1WD pin E/M and the FDU APU pin B/C and repair if necessary (Ref. ASM 26-13/01).
 - (2) If the fault continues:
 - do a check and repair the wiring from the ENG/APU fire panel 1WD pin E/M to the circuit breaker 2WG(Ref. ASM 26-13/01).
 - (3) If the fault continues:
 - replace the ENG/APU FIRE PNL (1WD)
 (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).

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B. Do the test given in para. 3.

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TASK 26-13-00-810-812

Maintenance Test of the APU FDU not possible

- 1. Possible Causes
 - FDU-APU (13WG)
 - CFDIU (1TW)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
A MM	2/ 47 00 740 004	Occasional Task of the ADU Fire and Occabert	
AMM	26-13-00-710-001	Operational Test of the APU Fire and Overheat Detection System	
AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)	
AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>	
AMM	31-32-34-000-001	Removal of the CFDIU (1TW)	
AMM ASM	31-32-34-400-001 26-13/01	Installation of the CFDIU (1TW)	

3. Fault Confirmation

A. Do the operational test of the APU fire and overheat detection system (Ref. AMM TASK 26-13-00-710-001).

4. Fault Isolation

- A. Remove the APU FDU (13WG):
 - make sure that there is no ground signal at the pin B/R of the APU FDU (13WG) on the wiring side (Ref. ASM 26-13/01).
 - (1) If there is no ground signal:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (2) If there is a ground signal:
 - remove the CFDIU (1TW)
 - make sure that there is no ground signal at the pin AA/8K of the CFDIU (1TW) on the wiring side (Ref. ASM 26-13/01).
 - (a) If there is no ground signal:
 - replace the CFDIU (1TW) (Ref. AMM TASK 31-32-34-000-001) and (Ref. AMM TASK 31-32-34-400-001)
 - install the APU FDU (13WG).

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- (b) If there is a ground signal:
 - do a check and repair the wiring between the CFDIU (1TW) pin AA/8K and the engine APU FDU (13WG) pin B/R (Ref. ASM 26-13/01)
 - install the CFDIU (1TW)
 - install the APU FDU (13WG).
- B. Do the test given in para. 3.

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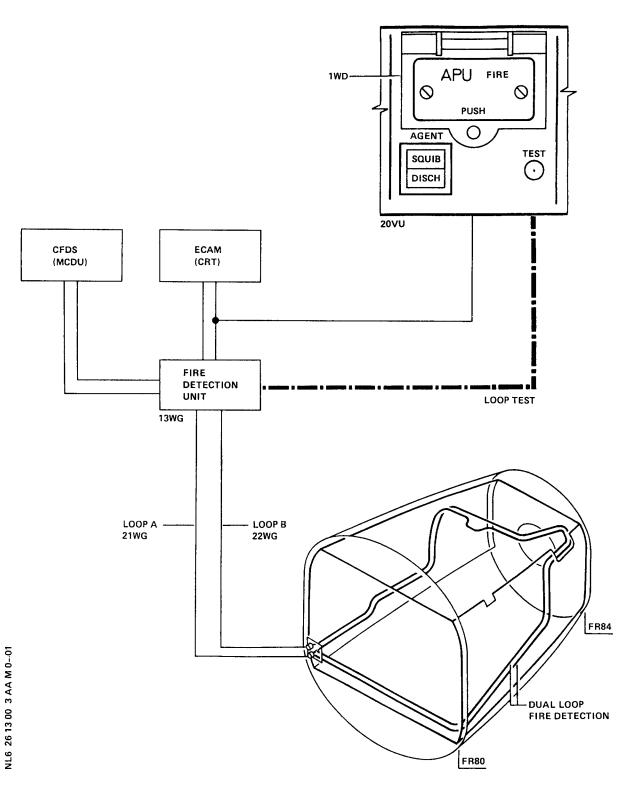
APU FIRE AND OVERHEAT DETECTION - TASK SUPPORTING DATA

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APU Fire and Overheat Detection - Block Diagram Figure 301

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AVIONICS COMPARTMENT SMOKE DETECTION - FAULT ISOLATION PROCEDURES

TASK 26-15-00-810-801

Avionics Smoke Warnings Inoperative

1. Possible Causes

- DET-SMOKE, AVNCS COMPT (1WA)
- wiring of the 28VDC signal from the pin AA of the avionics compartment smoke detector (1WA) to the first terminal block
- wiring of the ground signal at the avionics compartment smoke detector (1WA)
- RELAY SMOKE WARNING, AVNCS COMPT (2WA)
- wiring of this relay

2. Job Set-up Information

A. Referenced Information

	REFE	RENCE	DESIGNATION
R	AMM	21-26-00-710-001	Operational Check of System via MCDU
	AMM	26-15-15-000-001	Removal of the Smoke Detector (1WA) - Avionics Compartment
	AMM	26-15-15-400-001	Installation of the Smoke Detector (1WA) - Avionics Compartment
	ASM	26-15/01	

3. Fault Confirmation

A. Test

Do the operational test of the avionics equipment ventilation from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 21-26-00-710-001).

4. Fault Isolation

- A. If during the test, the SMOKE legend of the EMER ELEC PWR/GEN 1 LINE pushbutton switch and the FAULT legends of the VENTILATION/BLOWER and VENTILATION/EXTRACT pushbutton switches do not come on:
 - replace the DET-SMOKE, AVNCS COMPT (1WA) (Ref. AMM TASK 26-15-15-000-001) and (Ref. AMM TASK 26-15-15-400-001).
 - (1) If the fault continues:
 - do a check of the wiring of the 28VDC signal from the pin AA of the avionics compartment smoke detector (1WA) to the first terminal block
 - do a check of the wiring of the ground signal at the avionics compartment smoke detector (1WA), pin A/B

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(Ref. ASM 26-15/01).

- (a) If there is no continuity:
 repair the above wiring.
- - 1 If the fault continues:
 do a check and repair the wiring of this relay:
 from pin A/A2 to the ground point
 from pin A/X2 to the ground point
 from pin A/A1 to the first terminal block
 from pin A/X1 to the pin A/D of the avionics compartment
 smoke detector (1WA)
 (Ref. ASM 26-15/01).
- B. Do the test given in Para. 3.

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TASK 26-15-00-810-802

Loss of the SMOKE Legend on the EMER ELEC PWR/GEN 1 LINE Pushbutton Switch

- 1. Possible Causes
 - BOARD-ANN LT TEST & INTFC (8LP)
 - P/BSW-EMER ELEC PWR/SMOKE DRILL (13XU)
 - wiring of the pushbutton switch (13XU)
 - wiring of the annunciator light test and interface board (8LP)
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE 	DESIGNATION
R	ESPM	204511	
	AMM	21-26-00-710-001	Operational Check of System via MCDU
R			
	AMM	33-14-33-000-001	Removal of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP, 8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)
	AMM	33-14-33-400-001	Installation of the Annunciator-Light Test and Interface-Board (1LP, 2LP, 3LP, 4LP, 5LP, 6LP, 7LP, 8LP, 9LP, 10LP, 11LP, 12LP, 18LP, 19LP, 20LP)
	_		

3. Fault Confirmation

A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL	DESIGNATION	IDENT.	LOCATION
122VU	LIGHTING/TST/BOARD/SPLY	30LP	x06

B. Test

ASM 26-15/01

Do the operational test of the avionics equipment ventilation from the Multipurpose Control and Display Unit (MCDU) (Ref. AMM TASK 21-26-00-710-001).

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4. Fault Isolation

R

R

R

- A. If during the test, the SMOKE legend of the EMER ELEC PWR/GEN 1 LINE pushbutton switch does not come on:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the SMOKE legend of the GEN 1 LINE pushbutton switch comes on.
 - (1) If the SMOKE legend does not come on:
 - replace the P/BSW-EMER ELEC PWR/SMOKE DRILL (13XU) (Ref. ESPM 204511)
 - (a) If the fault continues:
 - do a check and repair the wiring of the pushbutton switch (13XU) from pin A/8 to the first terminal block and from pin A/7 to the pin A/18 of the annunciator light test and interface board (8LP) (Ref. ASM 26-15/01).
 - (2) If the SMOKE legend comes on:
 - replace the BOARD-ANN LT TEST & INTFC (8LP) (Ref. AMM TASK 33-14-33-000-001) and (Ref. AMM TASK 33-14-33-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring of the annunciator light test and interface board (8LP) from pins A/34 and A/35 to the first terminal block (Ref. ASM 26-15/01).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

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DESIGNATION

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TASK 26-15-00-810-803

Smoke Warnings without Smoke

1. Possible Causes

REFERENCE

- DET-SMOKE, AVNCS COMPT (1WA)
- 2. Job Set-up Information
 - A. Referenced Information

	AMM	26-15-15-000-001	Removal of the Smoke Detector (1WA) - Avionics Compartment
	AMM	26-15-15-400-001	Installation of the Smoke Detector (1WA) - Avionics Compartment
R	AMM	31-50-00-710-001	Ground Scanning of the Central Warning System
	3. <u>F</u>	ault Confirmation	
	A	 Test Not applicable, the 	e fault is evident.
	4. <u>F</u>	ault Isolation	
	A	. If smoke warnings o	come into view in the cockpit without smoke:
R R		(1) Do a reset of t - open the circ	the AEVC (10HQ): cuit breaker 5HQ for some seconds before you close it.
R		•	t continues: the DET-SMOKE, AVNCS COMPT (1WA) (Ref. AMM TASK 26-15- 01) and (Ref. AMM TASK 26-15-15-400-001).
R		<u>1</u> Reset of	f the FWC1 and FWC2
R R			Open the circuit breakers for some seconds before you close them.
R R R		<u>a</u> Open - 2WW - 3WW	
R R R R		— - 2WV - 3WV Do	
٠,		(110	71 Am 1868 31 30 00 110 00171

26-15-00

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TASK 26-15-00-810-804

Odours and mist in the cabin and not fire

- 1. Possible Causes
 - line between the APU and the APU BLEED VALVE
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE	DESIGNATION
49-00-00-810-921	Fumes in the Cabin/Oil Smoke at the APU Exhaust (APS 3200)
49-00-00-810-946	Metal Chip contamination on Magnetic Drain Plug or Speed Sensors (APS 3200)
49-00-81-810-874	APU - Oil Smoke in Cabin (131-9(A))
AMM 21-00-00-615-001	Decontamination of the Environmental Control System (ECS) when the Temperature is below 24 deg.C (APU)
AMM 21-00-00-615-002	Decontamination of the Environmental Control System (ECS) when the Temperature is above 24 deg.C (APU)
AMM 31-50-00-710-001	Ground Scanning of the Central Warning System

- 3. Fault Confirmation
 - A. Not applicable, you cannot confirm this fault on the ground.
- 4. Fault Isolation
- R **ON A/C 201-225, 227-227, 229-250, 252-299, 426-456, 476-499, 503-549, R 551-599, 701-749,
 - A. If there are odours and mist:
 - carefully examine the APU externally and make sure that you do not find leaks on the oil system components or oil lines.
 - (1) If you do not find external oil leaks:
 - remove the line between the APU and the APU BLEED VALVE.
 - check the contamination (Ref. TASK 49-00-00-810-921).
 - (a) If the fault continues:
 - decontaminate the lines (Ref. AMM TASK 21-00-00-615-001) or (Ref. AMM TASK 21-00-00-615-002).

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**ON A/C 457-475,

- A. If there are odours and mist:
 - carefully examine the APU externally and make sure that you do not find leaks on the oil system components or oil lines.
 - (1) If you do not find external oil leaks:
 - remove the line between the APU and the APU BLEED VALVE.
 - check the contamination (Ref. TASK 49-00-00-810-946).
 - (a) If the fault continues:
 - decontaminate the lines (Ref. AMM TASK 21-00-00-615-001) or (Ref. AMM TASK 21-00-00-615-002).

**ON A/C 247-253,

Post SB 49-1069 For A/C 247-250,252-253,

- A. If there are odours and mist:
 - carefully examine the APU externally and make sure that you do not find leaks on the oil system components or oil lines.
 - (1) If you do not find external oil leaks:
 - remove the line between the APU and the APU BLEED VALVE.
 - check the contamination (Ref. TASK 49-00-81-810-874).
 - (a) If the fault continues:
 - decontaminate the lines (Ref. AMM TASK 21-00-00-615-001) or (Ref. AMM TASK 21-00-00-615-002).

**ON A/C ALL

B. Table of the circuit breakers used in this procedure:

PANEL DESIGNATION IDENT. LOCATION

49VU FWS/FWC1/SPLY 3WW F01

121VU EIS/FWC2/SPLY 2WW Q07

- C. Test
 - (1) Reset of the FWC1 and FWC2

NOTE : Open the circuit breakers for some seconds before you close them.

(a) Open this(these) circuit breaker(s):

1 2WW

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- <u>2</u> 3ww
- (b) Close this(these) circuit breaker(s):
 - 1 2WW
 - <u>2</u> 3ww
- (2) Do the ground scanning of the central warning system (Ref. AMM TASK 31-50-00-710-001).

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CARGO COMPARTMENT SMOKE DETECTION - FAULT ISOLATION PROCEDURES

R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,

TASK 26-16-00-810-801

FWD LDCC Smoke Detector(s) Fault

- 1. Possible Causes
 - SDCU (10WQ)
 - cargo smoke detector
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE	DE 	DESIGNATION	
AMM 26-16-00-	•	erational Check of Cargo-Compartment oke-Detection by PTT	
AMM 26-16-15-	-000-001 Re	moval of the Cargo Smoke Detectors	
AMM 26-16-15-		stallation of the Cargo Smoke Detectors	
AMM 26-17-34-		moval of the Smoke-Detection Control Unit (SDCU) OWQ)	
AMM 26-17-34-		stallation of the Smoke-Detection Control Unit DCU) (10WQ)	
ASM 26-16/02			

- 3. Fault Confirmation
 - A. Test.
 - (1) Open the circuit breakers 11WQ and 12WQ
 - Wait 20 seconds
 - Close the circuit breakers and wait again 1 minute before start of the next test.
 - (2) Do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).
- 4. Fault Isolation
 - A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
 - B. If the test is OK:
 - no other maintenance action is necessary.

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- C. If the test gives the maintenance message SMOKE DET X WH FWD LDCC (X =
 RESP. DETECTOR):
 - replace the related cargo smoke detector (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring if necessary between the SDCU connected cargo compartment smoke detectors (Ref. ASM 26-16/02).
 - (2) If the fault continues:
 - replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
- D. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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TASK 26-16-00-810-802

AFT LDCC Smoke Detector(s) Fault

- 1. Possible Causes
 - SDCU (10WQ)
 - cargo smoke detector
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-16-00-710-001	Operational Check of Cargo-Compartment	
		Smoke-Detection by PTT	
AMM	26-16-15-000-001	Removal of the Cargo Smoke Detectors	
AMM	26-16-15-400-001	Installation of the Cargo Smoke Detectors	
AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)	
AMM	26-17-34-400-001	<pre>Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)</pre>	
ASM	26-16/02		

3. Fault Confirmation

- A. Test.
 - (1) Open the circuit breakers 11WQ and 12WQ
 - Wait 20 seconds
 - Close the circuit breakers and wait again 1 minute before start of the next test.
 - (2) Do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test is OK:
 - no other maintenance action is necessary.

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- C. If the test gives the maintenance message SMOKE DET X WH AFT LDCC (X =
 RESP. DETECTOR):
 - replace the related cargo smoke detector (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001).
 - (1) If the fault continues:
 - do a check and repair the wiring if necessary between the SDCU connected cargo compartment smoke detectors (Ref. ASM 26-16/02).
 - (2) If the fault continues:
 - replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
- D. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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R **ON A/C 201-225, 227-227, 229-299, 426-456, 476-499, 503-549, 551-599, R 701-749,

TASK 26-16-00-810-805

Cargo-Compartment Smoke Warning(s) without Fire

- 1. Possible Causes
 - Oil leak of the APU
- Job Set-up Information
 - A. Referenced Information

REFERENCE	DESIGNATION
49-00-00-810-846	Fumes in the Cabin/Oil Smoke at the APU Exhaust (GTCP 36-300)
49-00-00-810-921	Fumes in the Cabin/Oil Smoke at the APU Exhaust (APS 3200)
49-00-81-810-874	APU - Oil Smoke in Cabin (131-9(A))
AMM 12-33-21-618-001	Pre-conditioning with the APU

- 3. Fault Confirmation
 - A. Do the pre-conditioning with the APU (Ref. AMM TASK 12-33-21-618-001).
- 4. Fault Isolation
- R **ON A/C 201-225, 227-227, 229-250, 252-299, 426-455, 476-499, 503-549, R 551-599, 701-749,
 - A. If you smell fumes in the cabin during the pre-conditioning with the APU:
 - (1) Do the related trouble shooting procedure for the fumes in the cabin/oil smoke at the APU exhaust:
 - For the GTCP 36-300 (Ref. TASK 49-00-00-810-846)
 - For the APS 3200 (Ref. TASK 49-00-00-810-921)
 - For the 131-9(A) (Ref. TASK 49-00-81-810-874).

NOTE: An Oil leak of the APU causes this fault.

EFF: 201-225, 227-227, 229-299, 426-456, 476-499, 503-549, 551-599, 701-749,

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**ON A/C 251-251, 456-456,

- A. If you smell fumes in the cabin during the pre-conditioning with the APU:
 - (1) Do the related trouble shooting procedure for the fumes in the cabin/oil smoke at the APU exhaust:
 - For the GTCP 36-300 (Ref. TASK 49-00-00-810-846)
 - For the APS 3200 (Ref. TASK 49-00-00-810-921)
 - For the 131-9(A) (Ref. TASK 49-00-81-810-874).

NOTE: An Oil leak of the APU causes this fault.

R **ON A/C 201-225, 227-227, 229-299, 426-456, 476-499, 503-549, 551-599, R 701-749,

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-456, 476-499, 503-549, 551-599, 701-749,

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R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,

TASK 26-16-00-810-808

SMOKE Indicator Light inoperative

- 1. Possible Causes
 - SDCU (10WQ)
 - bulbs
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE	DESIGNATION	
AMM 26-16-00-710-001	Operational Check of Cargo-Compartment Smoke-Detection by PTT	
AMM 26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)	
AMM 26-17-34-400-001	<pre>Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)</pre>	
AMM 33-14-00-710-001 ASM 26-16/01	Operational Test of the Lights	
TSM 33-14-00-810-801	Failure of One Annunciator Light Only	

- 3. Fault Confirmation
 - A. Test

Do the Operational Test of the Cargo-Compartment Smoke-Detection System by PPT (Ref. AMM TASK 26-16-00-710-001).

- 4. Fault Isolation
 - A. If one SMOKE indicator light does not come on during the test:
 - do the Operational Test of the Annunciator Light Test System in the Cockpit (Ref. AMM TASK 33-14-00-710-001).
 - (1) If the fault continues:
 - replace the related bulbs.
 - (a) If the fault continues: (Ref. TSM TASK 33-14-00-810-801).

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- (2) If the Annunciator Light Test is OK:
 - replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
 - (a) If the fault continues:
 - do a check and repair the wiring if necessary between the SDCU (10WQ) and the relay board (3LP) (Ref. ASM 26-16/01)
- B. Do the test given in para. 3.

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**ON A/C 456-475,

TASK 26-16-00-810-809

Both Smoke-Detectors of one AFT LDCC Cavity Inoperative

- 1. Possible Causes
 - AFT LDCC smoke-detectors
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-16-00-710-001	Operational Check of Cargo-Compartment	
AMM AMM	26-16-15-000-001 26-16-15-400-001	Smoke-Detection by PTT Removal of the Cargo Smoke Detectors Installation of the Cargo Smoke Detectors	
_		-	

3. Fault Confirmation

- A. Test
 - (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH, wait for approx. 10 s and close again, wait for a minimum of 30 s before you start the test.
 - (2) Do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).
- 4. Fault Isolation
 - A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message SMK DET AFT LDCC (XWH) and SMK DET AFT LDCC (YWH) (XWH,YWH = FINs of the two related smoke detectors of the same cavity):
 - replace the AFT LDCC smoke-detectors (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001).

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- C. Do the test given in para. 3.
- 5. Close-up

R

A. Put the aircraft back to its initial configuration.

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TASK 26-16-00-810-810

AFT LDCC Smoke-Detector Inoperative

- 1. Possible Causes
 - AFT LDCC smoke-detector
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		RENCE	DESIGNATION	
	AMM	26-16-00-710-001	Operational Check of Cargo-Compartment Smoke-Detection by PTT	
	AMM AMM	26-16-15-000-001 26-16-15-400-001	Removal of the Cargo Smoke Detectors Installation of the Cargo Smoke Detectors	

3. Fault Confirmation

- A. Test.
 - (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH, wait for approx. 10 s and close again, wait for a minimum of 30 s before you start the test.
 - (2) Do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).
- 4. Fault Isolation
- A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message SMK DET AFT LDCC (XWH) (XWH =
 FIN of the related smoke detector):
 - replace the AFT LDCC smoke-detector (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001).
 - C. Do the test given in para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-16-00-810-811

AFT LDCC Smoke-Detector Contamination

- 1. Possible Causes
 - AFT LDCC smoke-detector
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-16-00-710-001	Operational Check of Cargo-Compartment Smoke-Detection by PTT	
AMM AMM	26-16-15-000-001 26-16-15-400-001	Removal of the Cargo Smoke Detectors Installation of the Cargo Smoke Detectors	

3. Fault Confirmation

- A. Test
 - (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH, wait for approx. 10 s and close again, wait for a minimum of 30 s before you start the test.
 - (2) Do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).
- 4. Fault Isolation

A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.

B. If the test gives the maintenance message SMK DET AFT LDCC (XWH)
 CONTAMINATION (XWH = FIN of the related smoke detector):

- replace the AFT LDCC smoke-detector (Ref. AMM TASK 26-16-15-000-001)
 and (Ref. AMM TASK 26-16-15-400-001).
- C. Do the test given in para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-16-00-810-812

Both Smoke-Detectors of one FWD LDCC Cavity Inoperative

- 1. Possible Causes
 - FWD LDCC smoke-detectors
- 2. Job Set-up Information
 - A. Referenced Information

REFE	RENCE	DESIGNATION
AMM	26-16-00-710-001	Operational Check of Cargo-Compartment Smoke-Detection by PTT
AMM AMM	26-16-15-000-001 26-16-15-400-001	Removal of the Cargo Smoke Detectors Installation of the Cargo Smoke Detectors

3. Fault Confirmation

- A. Test
 - (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH, wait for approx. 10 s and close again, wait for a minimum of 30 s before you start the test.
 - (2) Do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).
- 4. Fault Isolation
 - A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message SMK DET FWD LDCC (XWH) and SMK DET FWD LDCC (YWH) (XWH, YWH = FINs of the two related smoke detectors of the same cavity):
 - replace the FWD LDCC smoke-detectors (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001).
 - C. Do the test given in para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-16-00-810-813

FWD LDCC Smoke-Detector Inoperative

- 1. Possible Causes
 - FWD LDCC smoke-detector
- 2. Job Set-up Information
 - A. Referenced Information

REFE	RENCE	DESIGNATION
AMM	26-16-00-710-001	Operational Check of Cargo-Compartment Smoke-Detection by PTT
AMM AMM	26-16-15-000-001 26-16-15-400-001	Removal of the Cargo Smoke Detectors Installation of the Cargo Smoke Detectors

3. Fault Confirmation

- A. Test
 - (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH, wait for approx. 10 s and close again, wait for a minimum of 30 s before you start the test.
 - (2) Do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).
- 4. Fault Isolation
- A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message SMK DET FWD LDCC (XWH) (XWH =
 FIN of the related smoke detector):
 - replace the FWD LDCC smoke-detector (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001).
 - C. Do the test given in para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-16-00-810-814

FWD LDCC Smoke-Detector Contamination

- 1. Possible Causes
 - FWD LDCC smoke-detector
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		RENCE	DESIGNATION	
	AMM	26-16-00-710-001	Operational Check of Cargo-Compartment	
	АММ	26-16-15-000-001	Smoke-Detection by PTT Removal of the Cargo Smoke Detectors	
		26-16-15-400-001	Installation of the Cargo Smoke Detectors	

3. Fault Confirmation

- A. Test
 - (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH, wait for approx. 10 s and close again, wait for a minimum of 30 s before you start the test.
 - (2) Do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).
- 4. Fault Isolation

A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.

B. If the test gives the maintenance message SMK DET FWD LDCC (XWH) CONTAMINATION, (XWH = FIN of the related smoke detector):

- replace the FWD LDCC smoke-detector (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001).
- C. Do the test given in para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-16-00-810-815

CAN Bus Problem FWD LDCC Smoke-Detection

- 1. Possible Causes
 - wiring
 - FWD LDCC smoke detector
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE	DESIGNATION

R

R

R

AMM 26-16-15-000-001 AMM 26-16-15-400-001 Removal of the Cargo Smoke Detectors
Installation of the Cargo Smoke Detectors

ASM 26-16/02

- 3. Fault Confirmation
 - A. Test
- R (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH.
- R (2) Stop for approximately 10 s and close the circuit breakers again.
- R (3) Start the test after a minimum of 30 s:
 - (a) Do the system test through the MCDU, in menu CIDS-SDF.
 - 4. Fault Isolation
 - A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message WRG: CAN BUS X / SMK DET FWD
 LDCC (XWH), (XWH = FIN of the related smoke detector):
 - do a check and repair the wiring between the CIDS DIR 1 (101RH) and the FWD LDCC smoke detector XWH (Ref. ASM 26-16/02).
 - (1) If the fault continues: do a check and repair the wiring between the CIDS DIR 2 (102RH) and the FWD LDCC smoke detector XWH (Ref. ASM 26-16/02)

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- (2) If the fault continues:
 - replace the FWD LDCC smoke detector XWH (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001).
- C. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

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R TASK 26-16-00-810-816 CAN Bus A or CAN Bus B Failure 1. Possible Causes - wiring Job Set-up Information A. Referenced Information ______ R DESIGNATION R R AMM 26-16-00-710-001 Operational Check of Cargo-Compartment Smoke-Detection by PTT R ASM 26-16/02 R 3. Fault Confirmation R A. Test (1) Deactivation of the CIDS Directors R (a) On the circuit breaker panel 49VU, open the circuit breakers 15WH R and 18WH, then open the circuit breakers 150RH and 157RH. R (b) On the circuit breaker panel 121VU, open the circuit breakers R 17WH and 14WH, then open the circuit breakers 151RH and 156RH. R (2) Reactivation of the CIDS Directors (a) After a minimum of 5 s from power-down, on circuit breaker panel R 121 VU, close the circuit breakers 151RH and 156RH. R (b) On circuit breaker panel 49VU, close the circuit breakers 15ORH R and 157RH. R NOTE: The CIDS-SDF1 and CIDS-SDF2 must be energized within max. R R 30 s after CIDS is energized. (c) On circuit breaker panel 49VU, close the circuit breakers 15WH R and 18WH at the same time. R R (d) On circuit breaker panel 121VU, within max. 2 s after the CIDS-SDF1 and CIDS-SDF2 essential busses are energized, close R circuit breakers 17WH and 14WH at the same time. R (3) After a minimum of 30 s, do the operational test of the cargo R compartment smoke detection (Ref. AMM TASK 26-16-00-710-001). R

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4. Fault Isolation

R

R

R

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message WRG: CAN BUS X:
 - do a check and repair the wiring between the CIDS DIR 1 (101RH) and the LDCC smoke detectors (Ref. ASM 26-16/02)
 - (1) If the fault continues:
 - do a check and repair the wiring between the CIDS DIR 2 (102RH) and the LDCC smoke detectors (Ref. ASM 26-16/02)
- C. Do the test given in para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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R TASK 26-16-00-810-817 CIDS-SDF Channel y Failure 1. Possible Causes - CIDS Director R - wiring 2. Job Set-up Information R A. Referenced Information R REFERENCE **DESIGNATION** 23-73-34-000-001 Removal of the CIDS Director (101RH, 102RH) R AMM 23-73-34-400-001 Installation of the CIDS Director (101RH, 102RH) AMM R AMM 26-16-00-710-001 Operational Check of Cargo-Compartment R Smoke-Detection by PTT R ASM 26-16/02 3. Fault Confirmation A. Test R (1) Deactivation of the CIDS Directors R (a) On the circuit breaker panel 49VU, open the circuit breakers 15WH R and 18WH, then open the circuit breakers 150RH and 157RH. R (b) On the circuit breaker panel 121VU, open the circuit breakers R 17WH and 14WH, then open the circuit breakers 151RH and 156RH. R (2) Reactivation of the CIDS Directors R (a) After a minimum of 5 s from power-down, on circuit breaker panel R R 121 VU, close the circuit breakers 151RH and 156RH. (b) On circuit breaker panel 49VU, close the circuit breakers 15ORH R R and 157RH. R NOTE: The CIDS-SDF1 and CIDS-SDF2 must be energized within max. 30 s after CIDS is energized. R R (c) On circuit breaker panel 49VU, close the circuit breakers 15WH and 18WH at the same time. R (d) On circuit breaker panel 121VU, within max. 2 s after the R CIDS-SDF1 and CIDS-SDF2 essential busses are energized, close R circuit breakers 17WH and 14WH at the same time. R

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(3) After a minimum of 30 s, do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.

R

- B. If the test gives the maintenance message CIDS(10YRH)-SDF:
 - replace the related CIDS Director (10YRH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001)
 - (1) If the fault continues:
 - do a check and repair the wiring between the related circuit breakers and the CIDS Director (10YRH) AC/9 and AC/10 (Ref. ASM 26-16/02).
- C. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

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TASK 26-16-00-810-820

CAN Bus Problem AFT LDCC Smoke-Detection

- 1. Possible Causes
 - wiring
 - AFT LDCC smoke detector
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
A MM	2/ 1/ 00 710 001	One of Control Charles of Control
AMM	26-16-00-710-001	Operational Check of Cargo-Compartment Smoke-Detection by PTT
AMM	26-16-15-000-001	Removal of the Cargo Smoke Detectors
AMM ASM	26-16-15-400-001 26-16/02	Installation of the Cargo Smoke Detectors

3. Fault Confirmation

- A. Test
 - (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH, wait for approx. 10 s and close again, wait for a minimum time of 30 s before you start the test.
 - (2) Do the operational test of the cargo compartment smoke detection (Ref. AMM TASK 26-16-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message WRG: CAN BUS X / SMK DET AFT
 LDCC (XWH), (XWH = FIN of the related smoke detector):
 - do a check and repair the wiring between the CIDS DIR 1 (101RH) and the AFT LDCC smoke detector XWH (Ref. ASM 26-16/02).
 - (1) If the fault continues:
 - replace the AFT LDCC smoke detector XWH (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001).
- C. Do the test given in para. 3.

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5. Close-up

A. Put the aircraft back to its initial configuration.

D

EFF: 456-475,

26-16-00

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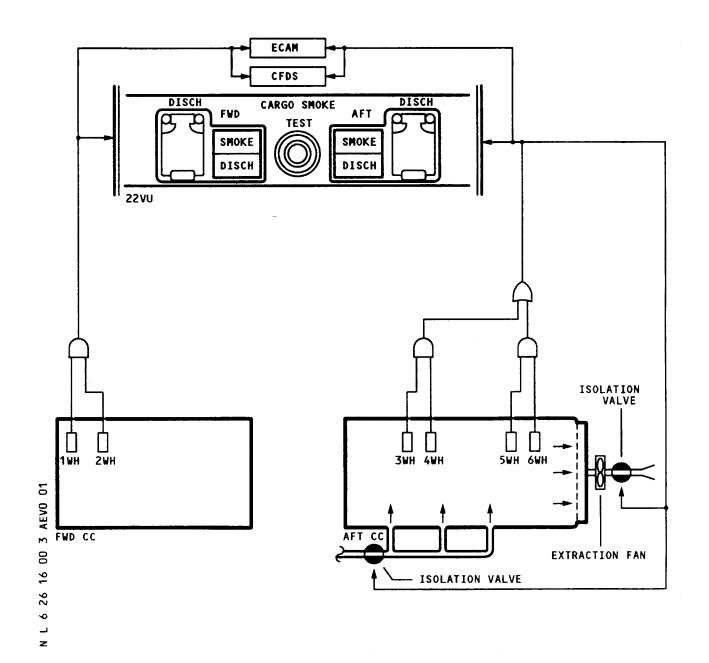
CARGO COMPARTMENT SMOKE DETECTION - TASK SUPPORTING DATA

EFF: ALL

26-16-00

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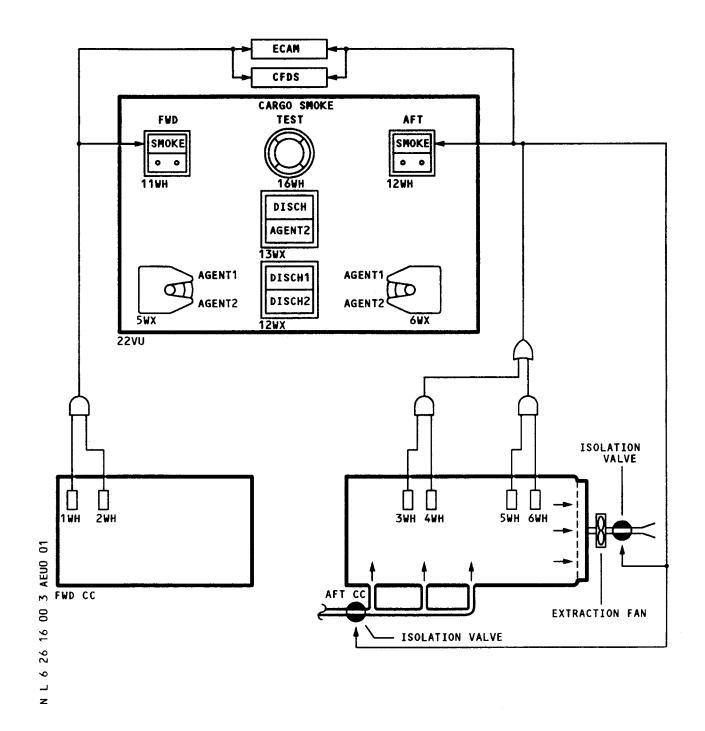
Cargo Compartment Smoke Detection - Block Diagram Figure 301

R EFF: 201-225, 227-227, 229-244, 247-250, 252-299, 426-455, 476-499, 503-549, 551-599, SROS

26-16-00

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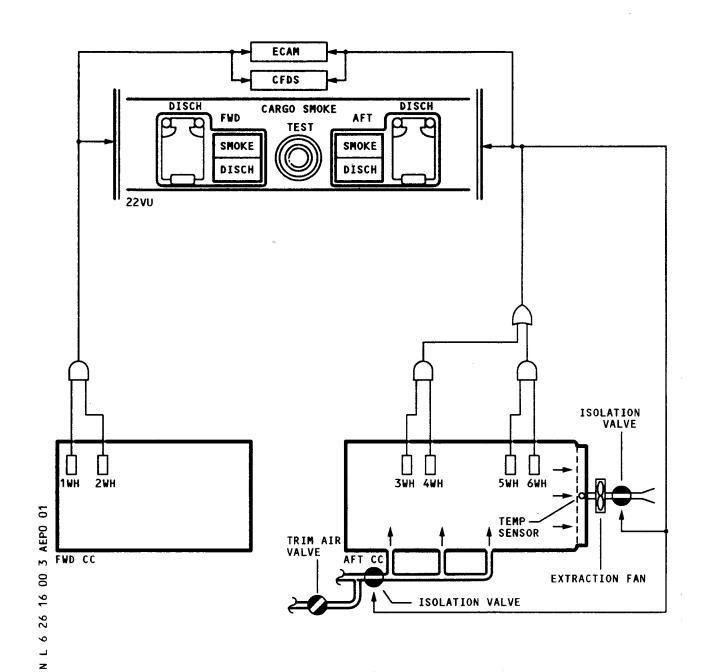
Cargo Compartment Smoke Detection - Block Diagram Figure 301A

EFF: 245-245, SROS Printed in France

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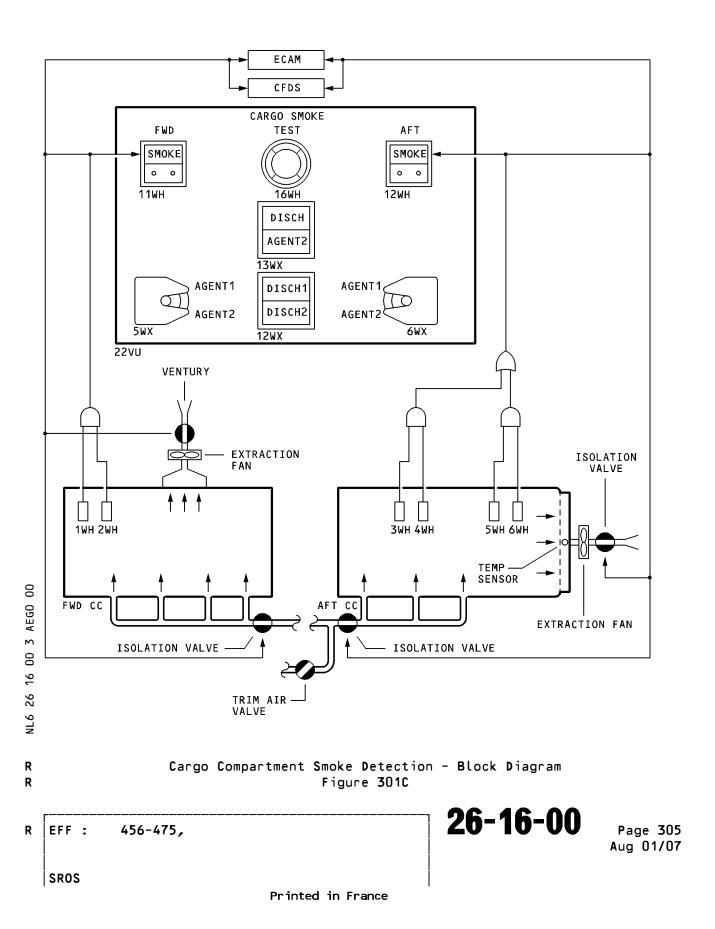
Cargo Compartment Smoke Detection - Block Diagram Figure 301B

EFF: 251-251, SROS Printed in France

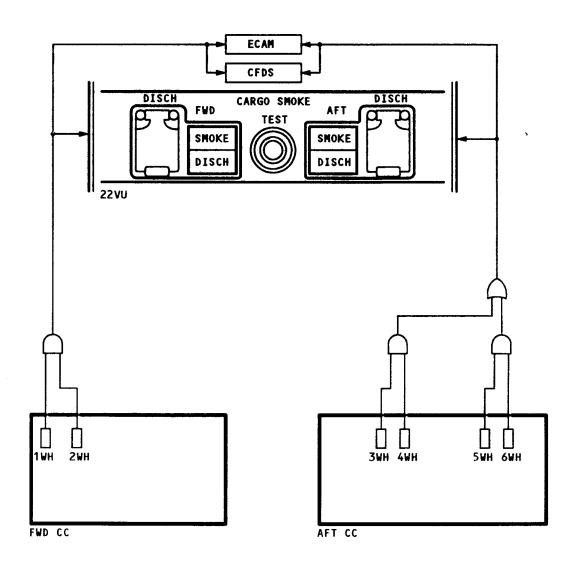
26-16-00

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Cargo Compartment Smoke Detection - Block Diagram Figure 301D

R EFF: 701-749, SROS

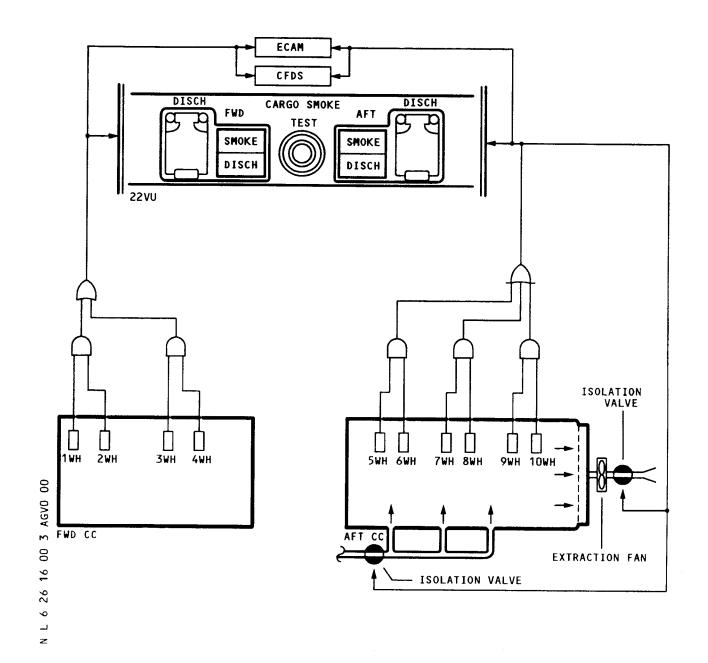
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26-16-00

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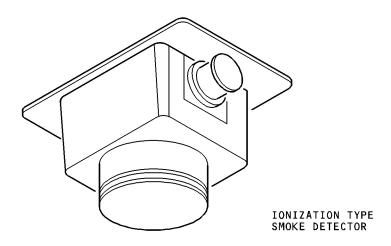


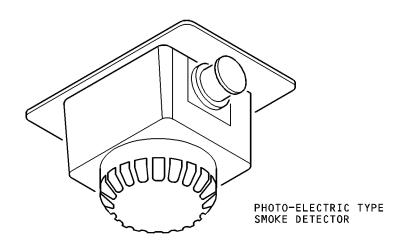
Cargo Compartment Smoke Detection - Block Diagram Figure 302

R EFF: 276-299, 476-499, 503-549, SROS 26-16-00

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Cargo-Compartment Smoke Detector - Visual Identification Figure 303

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

26-16-00

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LAVATORY SMOKE DETECTION - FAULT ISOLATION PROCEDURES

R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,

TASK 26-17-00-810-801

Lavatory Smoke Detection Fault

- 1. Possible Causes
 - lavatory smoke detector
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE			DESIGNATION			
	AMM	26-17-00-710-001	Operational Test of the Lavatory Smoke-Detection System			
		26-17-15-000-001 26-17-15-400-001	Removal of the Lavatory Smoke Detector 1WQ Installation of the Lavatory Smoke Detector 1WQ			

3. Fault Confirmation

- A. Test:
 - (1) Open the circuit breakers 11WQ and 12WQ
 - Wait 20 seconds
 - Close the circuit breakers and wait again 1 minute before start of the next test.
 - (2) Do the operational test of the lavatory smoke-detection system (Ref. AMM TASK 26-17-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- **B.** If the test gives the maintenance message **TEST OK**, no other maintenance action is necessary.
- C. If the test gives the maintenance message SMOKE DET LAV X (YWQ):

NOTE: X/Y shows the related lavatory location.

- replace the related lavatory smoke detector (Ref. AMM TASK 26-17-15-000-001) and (Ref. AMM TASK 26-17-15-400-001).

EFF: ALL 26-17-00

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D. Do the test as given in the Para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

SROS

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TASK 26-17-00-810-802

SDCU Single Channel Fault

- 1. Possible Causes
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE	DESIGNATION		
AMM 26-17-15-000-001 AMM 26-17-15-400-001 AMM 31-32-00-860-005 ASM 26-16/02 ASM 26-17/02	Removal of the Lavatory Smoke Detector 1WQ Installation of the Lavatory Smoke Detector 1WQ Procedure to Get Access to the SYSTEM REPORT/TEST FIRE PROT Page		

3. Fault Confirmation

A. Test:

- (1) Open the circuit breakers 11WQ and 12WQ
 - Wait 20 seconds
 - Close the circuit breakers and wait again 1 minute before start of the next test.
- (2) Get access to the MCDU/SDCU menu page (Ref. AMM TASK 31-32-00-860-005):
 - Push the line key adjacent to the <ON GROUND FAULTS indication. The MCDU shows the fault message. If there is no fault, the MCDU shows NO FAILURE.

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message TEST OK, no other maintenance action is necessary.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

26-17-00

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- C. If the test gives the status maintenance message SDCU and the maintenance message SMOKE DET LOOP:
 - make sure that all electrical connectors are connected to the smoke detectors.
 - (1) If the fault continues:

Channel 2.

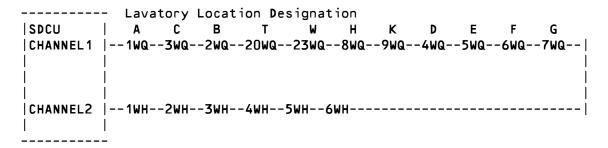
- do a read-out of the TROUBLE SHOOTING DATA (TSD).

The TSD shows the total number of smoke detectors (SD) installed on the smoke detection loop, e.g. xxxx xxxx xxxx xxxx A/B. The cabin layout specifies the number of SDs. If no fault is detected A=B.

NOTE: A is the number of SDs counted clockwise from the SDCU Channel 1.
B is the number of SDs counted counterclockwise from the SDCU

All cargo and lavatory smoke detectors are connected in a single loop, with a specified sequence. The FINs of the lavatory smoke detectors depend on the location of the lavatory in the cabin. You can ignore the FINs of smoke detectors not installed on A/C.

Sequence of Smoke Detectors in Single-Loop Configuration (A319/320)



Sequence of Smoke Detectors in Single-Loop Configuration (A321)

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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- (a) If the TSD gives the complementary information xxxx xxxx xxxx (b<A)</p>
 - replace the SD(b) (Ref. AMM TASK 26-17-15-000-001) (Ref. AMM TASK 26-17-15-400-001) counted counterclockwise from the SDCU Channel 2.
 - 1 If the fault continues:
 replace the SD(b+1) counted counterclockwise from SDCU Channel
 2 until the TSD gives the information xxxx xxxx xxxx xxxx A/B
 (A=B).
- (b) If the TSD gives the complementary information xxxx xxxx xxxx xxxx a/B
 (a<B)</pre>
 - replace the SD(a) (Ref. AMM TASK 26-17-15-000-001) (Ref. AMM TASK 26-17-15-400-001) counted clockwise from the SDCU Channel 1.
 - 1 If the fault continues: replace the SD(a+1) counted clockwise from SDCU Channel 1 until the TSD gives the information xxxx xxxx xxxx A/B (A=B).
- (2) If the fault continues:
 - do a check and repair the wiring between the related smoke detectors acquired by channel 1 and channel 2 smoke detector connector A/F and the smoke detector connector A/A, smoke detector connector A/G and the smoke detector connector A/B (Ref. ASM 26-17/02) or (Ref. ASM 26-16/02).
- D. Do the test given in para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-17-00-810-803

SDCU Double Channel Fault

1. Possible Causes

- lavatory smoke detectors
- cargo smoke detectors
- wiring

2. Job Set-up Information

A. Referenced Information

REFE	RENCE	DESIGNATION
AMM	26-16-15-000-001	Removal of the Cargo Smoke Detectors
AMM	26-16-15-400-001	Installation of the Cargo Smoke Detectors
AMM	26-17-15-000-001	Removal of the Lavatory Smoke Detector 1WQ
AMM	26-17-15-400-001	Installation of the Lavatory Smoke Detector 1WQ
AMM	31-32-00-860-005	Procedure to Get Access to the SYSTEM REPORT/TEST
		FIRE PROT Page
ASM	26-17/01	
ASM	26-17/02	
_	26-17/03	
TSM	26-17-00-810-806	Pin Programming Configuration Fault
**0N	A/C 201-225, 227-227	, 229-275, 426-455, 551-599, 701-749,
26-1	7-00-991-001	Fig. 201
**0N	A/C 276-299, 476-499	, 503-549,
26-1	7-00-991-001-A	Fig. 201A
**0N 701-	_	, 229-299, 426-455, 476-499, 503-549, 551-599,

3. Fault Confirmation

A. Test

R

R R

- (1) Open the circuit breakers 11WQ and 12WQ
 - Wait 20 seconds
 - Close the circuit breakers and wait again 1 minute before start of the next test.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749, SROS

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- (2) Get access to the MCDU/SDCU menu page (Ref. AMM TASK 31-32-00-860-005):
 - Push the line key adjacent to the <ON GROUND FAULTS indication. The MCDU shows the fault message. If there is no fault, the MCDU shows NO FAILURE.

4. Fault Isolation

R **ON A/C 201-225, 227-227, 229-275, 426-455, 551-599, 701-749,

(Ref. Fig. 201/TASK 26-17-00-991-001)

**ON A/C 276-299, 476-499, 503-549,

(Ref. Fig. 201A/TASK 26-17-00-991-001-A)

R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,

- A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
- **B.** If the test gives the maintenance message **TEST OK**, no other maintenance action is necessary.
- C. If the test gives the maintenance status message SMOKE LAV + CRG DET FAULT and the trouble shooting data gives the complementary information SMOKE DET LOOP:

make sure that all electrical connectors are connected to the smoke detectors in loop A and loop B.

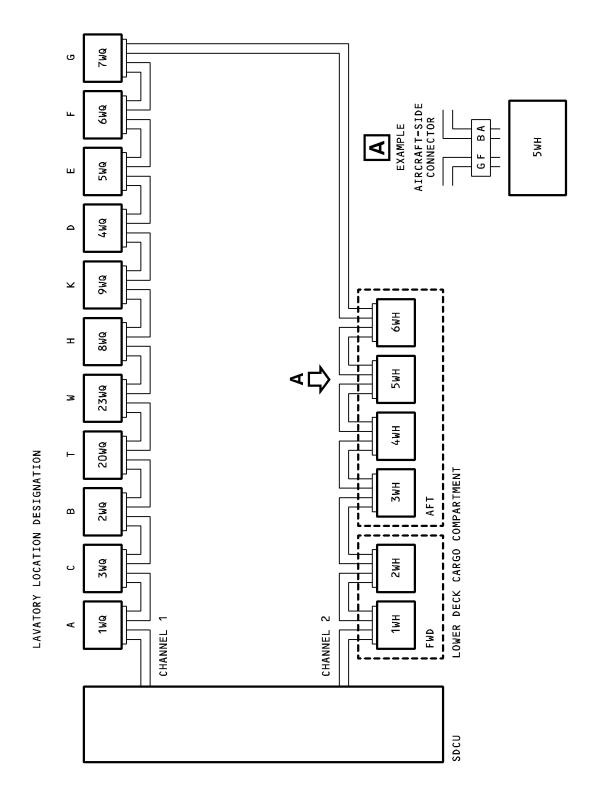
- NOTE : This paragraph is only applicable to ionization type smoke detectors P/N PAI2800-xx, GAI2800-xx and PAI2830-xx.
- NOTE: In case ionization type SDs and photo-electric type SDs are installed on the same aircraft do the trouble shooting procedure for photo-electric type SDs first. Start the procedure at an SD location adjacent to a photo-electric type SD, performing the measurements in the direction of the photo-electric type SD, see paragraph 4.D.(3). Perform the trouble shooting procedure as described, but not to the ionization type SDs. If all photo-electric type SDs are found serviceable do the trouble shooting procedure for ionization type SDs.
- (1) If the fault continues:
 - do a check of the SDCU PIN PROGRAMMING (Ref. TSM TASK 26-17-00-810-806).

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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Sequence of Smoke Detectors in Single-Loop Configuration Figure 201/TASK 26-17-00-991-001

R EFF: 201-225, 227-227, 229-275, 426-455, 551-599, 701-749, SROS

2 AAMO 00

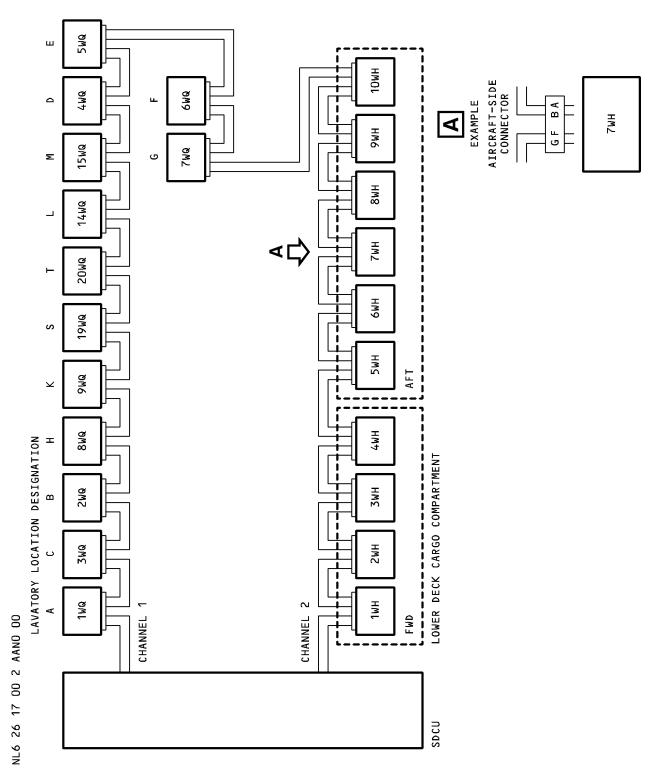
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NL6 26 17

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Sequence of Smoke Detectors in Single-Loop Configuration Figure 201A/TASK 26-17-00-991-001-A

R EFF: 276-299, 476-499, 503-549,
SROS

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- (2) If the fault continues:
 - replace the lavatory smoke detectors (Ref. AMM TASK 26-17-15-000-001) and (Ref. AMM TASK 26-17-15-400-001) in sequence (start from the first LAV S/D of SDCU CHANNEL 1, usually LAV A).
- (3) If the fault continues:
 - replace the cargo smoke detectors (Ref. AMM TASK 26-16-15-000-001) and (Ref. AMM TASK 26-16-15-400-001) in sequence (start from the first Cargo S/D of SDCU CHANNEL 1).
- (4) If the fault continues:
 - do a check and repair if necessary the wiring between the SDCU and all the connected lavatory and cargo compartment smoke detectors (Ref. ASM 26-17/01), (Ref. ASM 26-17/02) and (Ref. ASM 26-17/03).
- (5) If the fault continues:
 - do a check and repair the wiring of the related wiring which is shown in the WIRING REPORT (Ref. ASM 26-17/01), (Ref. ASM 26-17/02) and (Ref. ASM 26-17/03).
- D. If the test gives the maintenance message SMOKE DET LOOP:
 - Make sure that all electrical connectors are connected to the smoke detectors in the loop.
 - NOTE: This paragraph is only applicable to photo-electric type smoke detectors P/N PPA1100-xx, PPA1200-xx, PPA1201-xx and PAPE2800-xx,
 - (1) If the aircraft has ionization-type smoke-detectors and photo-electric-type smoke-detectors:
 - (a) Do the troubleshooting procedure for the photo-electric-type smoke-detectors first.
 - Start the procedure at a smoke-detector adjacent to a photo-electric-type smoke-detector.
 - Measure in the direction of the photo-electric-type smoke-detector (refer to Para. 3 of this subtask).
 - Do the troubleshooting procedure as shown, ignore the ionization-type smoke-detectors.
 - (b) If the troubleshooting for the photo-electric-type smoke-detectors is done and no failure is found:
 - Do the trouble shooting procedure for the ionization-type smoke-detectors.
 - (2) If the fault continues:
 - Do a read-out of the TROUBLESHOOTING DATA (TSD).

NOTE: Obey when reading the TSD:

- The TSD shows the total number od smoke detectors (SD) installed (and found) on the smoke detection loop, e.g. xxxx xxxx xxxx xxxx aa/bb.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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- The cabin layout shows the number of **SDs.** If no fault is found aa is equal to bb.
- aa is the number of SDs of the SDCU channel 1 (counted clockwise).
- bb is the number of SDs of the SDCU channel 2 (counted counterclockwise).

All cargo and lavatory smoke detectors are connected in one loop, with a specified sequence. The FINs of the lavatory smoke detectors are related to the location of the lavatory in the cabin. You can ignore the FINs of smoke detectors not installed on the A/C.

Sequence of smoke detectors in single-loop configuration (A319/A320):

Sequence of smoke detectors in single-loop configuration (A321):

- (a) If the TSD gives the value xxxx xxxx xxxx xxxx aa/bb (with bb<aa) Replace the SD(bb) (Ref. AMM TASK 26-17-15-000-001) (Ref. AMM TASK 26-17-15-400-001) counted counterclockwise from the SDCU Channel 2.
 - If the fault continues: Replace the SD(bb+1) counted counterclockwise from SDCU Channel 2 until the TSD gives the value xxxx xxxx xxxx aa/bb (with aa=bb).
- (b) If the TSD gives the value xxxx xxxx xxxx xxx aa/bb (with aa<bb) Replace the SD(aa) (Ref. AMM TASK 26-17-15-000-001) (Ref. AMM TASK 26-17-15-400-001) counted clockwise from the SDCU Channel 1.</p>
 - If the fault continues: Replace the SD(aa+1) counted clockwise from SDCU Channel 1 until the TSD gives the value xxxx xxxx xxxx xxx aa/bb (with aa=bb).

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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- (3) If the fault continues:
 - Do a check of the SDCU PIN PROGRAMMING (Ref. TSM TASK 26-17-00-810-806).
- (4) If the fault continues:
 - Do this procedure for the identification of a defective photo-electric type smoke detector.

NOTE: For this procedure two persons are necessary, one in the cockpit and one to move from detector to detector.

One digital multimeter that can measure 24VDC, with a CAPTURE MAX/MIN function, is necessary.

The sequence of the troubleshooting procedure (step (a) to step (n)) is mandatory. Do not stop if you find one defective smoke detector at the start of the troubleshooting procedure. One or more smoke detector(s) that follow(s) can have a defect.

All cargo and lavatory smoke detectors are connected in a single loop, with a specified sequence. The FINs of the lavatory smoke detectors are related to the location of the lavatory in the cabin. You can ignore the FINs of smoke detectors not installed on A/C. The sequence of the connection and disconnection process shown in the diagram is mandatory.

R **ON A/C 201-225, 227-227, 229-275, 426-455, 551-599, 701-749,

(Ref. Fig. 201/TASK 26-17-00-991-001)

**ON A/C 276-299, 476-499, 503-549,

(Ref. Fig. 201A/TASK 26-17-00-991-001-A)

- R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,
 - (a) Open the SDCU circuit breakers 11WQ and 12WQ.
 - (b) Disconnect the cargo smoke detector 5WH for A319/320 or 7WH for A321.
 - (c) Connect the red lead of the DC meter to the pin G and the black lead to the pin F at the aircraft-side connector of the detector.
 - (d) Close the SDCU circuit breakers 11WQ and 12WQ for 40 to 60 seconds.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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- (e) The DC meter pulses between DC voltages.
 - If the highest voltage peak shown on the voltmeter is less than 22VDC,
 - For A319/320: One or more smoke detector(s) of 1WH, 2WH, 3WH, 4WH is(are) defective (between SDCU channel 2 and 5WH).
 - For A321: One or more smoke detector(s) of 1WH, 2WH, 3WH, 4WH, 5WH, 6WH is(are) defective (between SDCU channel 2 and 7WH).
 - If the highest voltage peak shown on the voltmeter is equal to 24+/-2VDC (voltage level pulses between OVDC and 24VDC),
 - For A319/320: The smoke detectors between the SCDU and 5WH (channel 2) are serviceable.
 - For A321: The smoke detectors between the SDCU and 7WH (channel 2) are serviceable.
- (f) Open the SDCU circuit breakers 11WQ and 12WQ.
 - NOTE : If the measurements of step (e) are done after short intervals it is not necessary to do step (f). If not, do the step (d) again.
- (g) Connect the red lead of the DC meter to the pin A and the black lead to the pin B of the aircraft-side connector of the detector.
- (h) During the subsequent 40 to 60 seconds do a check of the voltage with the voltage-meter. The DC meter pulses between DC voltages.
 - If the highest voltage peak shown on the voltmeter is less than 22VDC,
 - For A319/320: One or more of the smoke detector(s) between SDCU channel 1 and 5WH is(are) defective.
 - For A321: One or more of the smoke detector(s) between the SDCU channel 1 and 7WH is(are) defective.
 - 2 If the highest voltage peak shown on the voltmeter is equal to 24+/-2V (voltage pulses between OV and 24V),
 - For A319/320: The smoke detectors between SDCU channel 1 and 5WH are serviceable. Smoke detector 5WH apparently is defective. Replace the smoke detector.
 - For A321: The smoke detectors between SDCU channel 1 and 7WH are serviceable. Smoke detector 7WH apparently is defective. Replace the smoke detector.
- (i) Open the SDCU circuit breakers 11WQ and 12WQ.
- (j) Connect smoke detector 5WH for A319/A320 (or 7WH for A321) to the loop again.

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(k) If step (e) 1 applies, do a test for each smoke detector in the sequence of channel 2, that is between SDCU channel 2 and 5WH for A319/320, between SDCU channel 2 and 7WH for A321.

NOTE: The test for the last smoke detector is complete when the smoke detector 5WH for A319/A320 or 7WH for A321 was disconnected and connected to the loop again.

1 Disconnect the n-th smoke detector of channel 2.

NOTE: "n" gives the position of the smoke detector in the loop. At the start of this procedure "n" refers to the second cargo smoke detector, n=2. Cargo smoke detector 2WH (n=2) is disconnected to examine the previous detector 1WH (n-1) in the loop (adjacent to 2WH).

- $\underline{2}$ Close the SDCU circuit breakers 11WQ and 12WQ and pause 40 to 60 seconds.
- Measure the voltage (DC mode) between pin F and pin G of the aircraft-side connector.
 - <u>a</u> If the highest voltage peak shown on the voltmeter is less than 22VDC, the smoke detector in the location (n-1) is defective. Replace the smoke detector.
 - <u>b</u> If the highest voltage peak shown on the voltmeter is equal to 24+/-2V (voltage level pulses between OV and 24V), the smoke detector on the location (n-1) is serviceable.
- 4 Open the SDCU circuit breaker 11WQ and 12WQ.
- 5 Connect the n-th smoke detector to the loop again and disconnect the smoke detector on the location (n+1).
- <u>6</u> Do the steps (k) 1 to step (k) 5 for each smoke detector that is in a subsequent position in the loop to examine each smoke detector.
 - NOTE: An incorrect voltage measured at the location number n indicates a defective smoke detector on the location (n-1).
- (l) If step (h) 1 applies, do a test for each smoke detector in the sequence of channel 1. That is between SDCU channel 1 and 5WH for A319/320, between SDCU channel 1 and 7WH for A321.
 - NOTE: The test for the last smoke detector is complete when smoke detector 5WH for A319/320 or 7WH for A321 has been disconnected and connected to the loop again.

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1 Disconnect the n-th smoke detector of channel 1.

NOTE: "n" gives the position of the smoke detector in the loop. At the start of this procedure n refers to the second lavatory smoke detector, n=2. If there are three lavatories in the cabin, on the location A, D and E: The second lavatory smoke detector 4WQ (n=2) is disconnected to examine the previous detector 1WQ (n-1) in the loop before 1WQ.

- Close the SDCU circuit breakers 11WQ and 12WQ and pause 40 to 60 seconds.
- <u>3</u> Measure the voltage (DC mode) between pin A and pin B of the aircraft-side connector.
 - <u>a</u> If the highest voltage peak shown on the voltmeter is less than 22 VDC, the smoke detector on the location (n-1) apparently is defective. Replace the smoke detector.
 - <u>b</u> If the highest voltage peak shown on the voltmeter is equal to 24+/-2VDC (voltage level pulses between OVDC and 24VDC), the smoke detector on the location (n-1) is serviceable.
- 4 Open the SDCU circuit breakers 11WQ and 12WQ.
- 5 Connect the n-th smoke detector to the loop again and disconnect smoke detector on location (n+1).
- $\underline{6}$ Do the steps (l) 1 to step (l) 5 for each smoke detector that follows to examine each smoke detector.
 - NOTE: An incorrect voltage measured at the location number n means that the smoke detector on the location (n-1) is defective.
- (m) Close the SDCU circuit breakers 11WQ and 12WQ again and pause for approximately 80 seconds (SDCU power-up is 20 sec. and SD initialization is 60 sec.).
- (n) Do a check of the "ON GROUND FAULTS" indication.
- (5) If the fault continues:
 - Do a check and repair if necessary the wiring between the SDCU and all the connected lavatory and cargo compartment smoke detectors (Ref. ASM 26-17/01), (Ref. ASM 26-17/02) and (Ref. ASM 26-17/03).
- (6) If the fault continues:
 - Do a check and repair the wiring of the related wiring which is shown in the WIRING REPORT (Ref. ASM 26-17/01), (Ref. ASM 26-17/02) and (Ref. ASM 26-17/03).

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E. Do the test given in the Para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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TROUBLE SHOOTING MANUAL

TASK 26-17-00-810-804

Lavatory Smoke Warning(s) without Fire

- 1. Possible Causes
 - Oil leak of the APU
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE	DESIGNATION
49-00-00-810-846	Fumes in the Cabin/Oil Smoke at the APU Exhaust (GTCP 36-300)
49-00-00-810-921	Fumes in the Cabin/Oil Smoke at the APU Exhaust (APS 3200)
AMM 12-33-21-618-001	Pre-conditioning with the APU

- 3. Fault Confirmation
 - A. Do the pre-conditioning with the APU (Ref. AMM TASK 12-33-21-618-001).
- 4. Fault Isolation
- R **ON A/C 201-225, 227-227, 229-250, 252-299, 426-455, 476-499, 503-549, R 551-599, 701-749,
 - A. If you smell fumes in the cabin during the pre-conditioning with the APU:
 - (1) Do the trouble shooting procedure for the fumes in the cabin/oil smoke at the APU exhaust (Ref. TASK 49-00-00-810-921).

NOTE: An Oil leak of the APU causes this fault.

**ON A/C 251-251,

- A. If you smell fumes in the cabin during the pre-conditioning with the APU:
 - (1) do the trouble shooting procedure for the fumes in the cabin/oil smoke at the APU exhaust (Ref. TASK 49-00-00-810-846).

NOTE: An Oil leak of the APU causes this fault.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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TROUBLE SHOOTING MANUAL

TASK 26-17-00-810-805

Smoke Detector(s) Wiring Fault

- 1. Possible Causes
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

DESCRIPTION DESCRIPTION

REFERENCE

DESIGNATION

AMM 31-32-00-860-005

Procedure to Get Access to the SYSTEM REPORT/TEST FIRE PROT Page

ASM 26-16/01

ASM 26-17/01

ASM 26-17/01

ASM 26-17/01

- 3. Fault Confirmation
 - A. Test
 - (1) On one MCDU get the SYSTEM REPORT/TEST SDCU menu page (Ref. AMM TASK 31-32-00-860-005).
 - (2) On the MCDU:
 - push the line key adjacent to the <WIRING REPORT indication.
- 4. Fault Isolation
 - A. If the SDCU WIRING REPORT page gives the maintenance message NO FAILURE, no other maintenance action is necessary.
 - B. If the test gives the maintenance message TEST OK, no other maintenance action is necessary.
 - C. If the SDCU WIRING REPORT page gives the maintenance message(s):

WIRING DEFECT BETWEEN SDCU (10WQ) AND SMOKE DET LAV X (XWQ), and/or WIRING DEFECT BETWEEN SMOKE DET LAV X (XWQ) AND SMOKE DET LAV X (XWQ), and/or

WIRING DEFECT BETWEEN SMOKE DET LAV X (XWQ) AND SDCU (10WQ) (X = RESP.LAV)

WIRING DEFECT BETWEEN SMOKE DETECTOR (XWH) FWD (OR AFT) LDCC AND SMOKE DETECTOR (XWH) FWD (OR AFT) LDCC.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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- Check and repair if necessary the wiring between the SDCU and the related smoke detector
- Check and repair if necessary the wiring between the related smoke detectors which is shown in the SDCU WIRING REPORT (Ref. ASM 26-17/01), (Ref. ASM 26-17/01) and (Ref. ASM 26-16/01).
- D. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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TROUBLE SHOOTING MANUAL

TASK 26-17-00-810-806

Pin Programming Configuration Fault

- 1. Possible Causes
 - SDCU (10WQ)
 - PIN PROGRAMMING
- 2. Job Set-up Information
 - A. Referenced Information

REFE	RENCE	DESIGNATION		
AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)		
AMM	26-17-34-400-001	<pre>Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)</pre>		
AMM	31-32-00-860-005	Procedure to Get Access to the SYSTEM REPORT/TEST FIRE PROT Page		
ASM	26-17/01	_		

3. Fault Confirmation

- A. Test
 - (1) Open the circuit breakers 11WQ and 12WQ
 - Wait 20 seconds
 - Close the circuit breakers and wait again 1 minute before start of the next test.
 - (2) Get access to the MCDU/SDCU menu page (Ref. AMM TASK 31-32-00-860-005):
 - Push the line key adjacent to the <ON GROUND FAULTS indication. The MCDU shows the fault message. If there is no fault, the MCDU shows NO FAILURE.

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- **B.** If the test gives the maintenance message **TEST OK**, no other maintenance action is necessary.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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- C. If the test gives the maintenance message WRG:PIN PROG:
 - Do a check and repair of the PIN PROGRAMMING at the pin B/8D of the SDCU (10WQ) (Ref. ASM 26-17/01).
 - (1) If the fault continues:
 - Replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
- D. Do the test given in para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

TROUBLE SHOOTING MANUAL

TASK 26-17-00-810-807

SDCU/SMOKE DET LOOP FAULT

- 1. Possible Causes
 - electrical connectors
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFE	RENCE	DESIGNATION		
AMM AMM	26-16-15-000-001 26-16-15-400-001 26-17-15-000-001 26-17-15-400-001 31-32-00-860-005	Removal of the Cargo Smoke Detectors Installation of the Cargo Smoke Detectors Removal of the Lavatory Smoke Detector 1WQ Installation of the Lavatory Smoke Detector 1WQ Procedure to Get Access to the SYSTEM REPORT/TEST FIRE PROT Page		
ASM ASM	26-16/02 26-17/02			

3. Fault Confirmation

- A. Test:
 - (1) Open the circuit breakers 11WQ and 12WQ
 - Wait 20 seconds
 - Close the circuit breakers and wait again 1 minute before start of the next test.
 - (2) Get access to the MCDU/SDCU menu page (Ref. AMM TASK 31-32-00-860-005):
 - Push the line key adjacent to the <ON GROUND FAULTS indication. The MCDU shows the fault message. If there is no fault, the MCDU shows NO FAILURE.

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- **B.** If the test gives the maintenance message **TEST OK**, no other maintenance action is necessary.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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- C. If the test gives the status maintenance message SDCU and the maintenance message SDCU/SMOKE DET LOOP:
 - Refer to the lavatory smoke detection schematic of the Description and Operation chapter AMM 261700 PB 001.
 - Make sure that the electrical connectors at the SDCU (10WQ) and the related first connected smoke detectors are correctly installed (Ref. ASM 26-17/02).
 - (1) If the fault continues:
 - Read out the TROUBLE SHOOTING DATA (TSD).

The TSD shows the number of smoke detectors (SD) installed on the smoke detection loop, e.g. xxxx xxxx xxxx xxxx A/B. The Customer Layout specifies the number of SD's. If no fault is detected, A is equal to B.

- NOTE: A is the number of SD's counted clockwise from the SDCU Channel 1.
 - B is the number of SD's counted counterclockwise from the SDCU Channel 2.
- (a) If the TSD gives the complementary information xxxx xxxx xxxx xxxx 0/B:
 - Replace the first SD (Ref. AMM TASK 26-17-15-000-001) (Ref. AMM TASK 26-17-15-400-001) counted clockwise from SDCU Channel 1.
 - 1 If the fault continues:
 - Do a check and repair the wiring if necessary between the SDCU (10WQ) and the related first lavatory smoke detector (XWQ):
 - SDCU (10WQ) connector AA/1A and the first smoke detector (XWQ) connector A/A $\,$
 - SDCU (10WQ) connector AA/1B and the first smoke detector (XWQ) connector A/B (Ref. ASM 26-17/02).
- (b) If the TSD gives the complementary information xxxx xxxx xxxx xxxx A/O:
 - Replace the first SD (Ref. AMM TASK 26-16-15-000-001) (Ref. AMM TASK 26-16-15-400-001) counted counterclockwise from SDCU Channel 2.
 - 1 If the fault continues:
 - Do a check and repair the wiring if necessary between the SDCU (10WQ) and the related first cargo smoke detector (XWH):

SDCU (10WQ) connector AB/1C and the first smoke detector (XWH) connector A/G $\,$

SDCU (10WQ) connector AB/1B and the first smoke detector (XWH) connector A/F (Ref. ASM 26-16/02).

D. Do the test given in para. 3.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749, SROS

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TASK 26-17-00-810-813

SDCU Channel 1 (10WQ) Fault

- 1. Possible Causes
 - SDCU (10WQ)
 - aircraft wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFE	RENCE	DESIGNATION		
AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)		
AMM	26-17-34-400-001	<pre>Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)</pre>		
AMM	31-32-00-860-005	Procedure to Get Access to the SYSTEM REPORT/TEST FIRE PROT Page		
ASM	26-17/00	-		

3. Fault Confirmation

- A. Test:
 - (1) Open the circuit breakers 11WQ and 12WQ
 - Wait 20 seconds
 - Close the circuit breakers and wait again 1 minute before start of the next test.
 - (2) Get access to the MCDU/SDCU menu page (Ref. AMM TASK 31-32-00-860-005):
 - Push the line key adjacent to the <ON GROUND FAULTS indication.

4. Fault Isolation

- A. If the MCDU gives the maintenance message NO FAILURE, no other maintenance action is necessary.
- B. If the MCDU gives the maintenance message SDCU CHANNEL 1 (10WQ) replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) (Ref. AMM TASK 26-17-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the aircraft wiring from the circuit breaker
 11WQ to the SDCU (10WQ) AC/2 (Ref. ASM 26-17/00).

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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5. Close-up

A. Do the test given in para. 3.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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TASK 26-17-00-810-814

SDCU Channel 2 (10WQ) Fault

- 1. Possible Causes
 - SDCU (10WQ)
 - aircraft wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFE	RENCE	DESIGNATION		
AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)		
AMM	26-17-34-400-001	<pre>Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)</pre>		
AMM	31-32-00-860-005	Procedure to Get Access to the SYSTEM REPORT/TEST FIRE PROT Page		
ASM	26-17/00	-		

3. Fault Confirmation

- A. Test:
 - (1) Open the circuit breakers 11WQ and 12WQ
 - Wait 20 seconds
 - Close the circuit breakers and wait again 1 minute before start of the next test.
 - (2) Get access to the MCDU/SDCU menu page (Ref. AMM TASK 31-32-00-860-005):
 - Push the line key adjacent to the <ON GROUND FAULTS indication.

4. Fault Isolation

- A. If the MCDU gives the maintenance message NO FAILURE, no other maintenance action is necessary.
- B. If the MCDU gives the maintenance message SDCU CHANNEL 2 (10WQ) replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) (Ref. AMM TASK 26-17-34-400-001).
 - (1) If the fault continues:
 - do a check and repair the aircraft wiring from the circuit breaker
 12WQ to the SDCU (10WQ) AC/4 (Ref. ASM 26-17/00).

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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5. Close-up

A. Do the test given in para. 3.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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**ON A/C 456-475,

TASK 26-17-00-810-815

Lavatory Smoke-Detector Inoperative

- 1. Possible Causes
 - lavatory smoke detector
- 2. Job Set-up Information
 - A. Referenced Information

REFE	RENCE	DESIGNATION
AMM	26-17-00-710-001	Operational Test of the Lavatory Smoke-Detection System
AMM	26-17-15-000-001 26-17-15-000-008	Removal of the Lavatory Smoke Detector 1WQ
AMM	26-17-13-000-008	Removal of the Lavatory Smoke Detector (2WQ/4WQ/5WQ/6WQ/8WQ/9WQ/14WQ/15WQ)
AMM	26-17-15-400-001	Installation of the Lavatory Smoke Detector 1WQ
AMM	26-17-15-400-007	<pre>Installation of the Lavatory Smoke Detector (2WQ/4WQ/5WQ/6WQ/8WQ/9WQ/14WQ/15WQ)</pre>

3. Fault Confirmation

- A. Test
 - (1) Do the operational test of the lavatory smoke-detection system (Ref. AMM TASK 26-17-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- **B.** If the test gives the maintenance message **TEST OK**, no other maintenance action is necessary.
- C. If the test gives the maintenance message SMK DET LAV X (X = location of the related lavatory):
 - replace the related lavatory smoke detector (Ref. AMM TASK 26-17-15-000-001), (Ref. AMM TASK 26-17-15-000-008) and (Ref. AMM TASK 26-17-15-400-001), (Ref. AMM TASK 26-17-15-400-007).
- D. Do the test as given in the Para. 3.

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A. Put the aircraft back to its initial configuration.

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TROUBLE SHOOTING MANUAL

TASK 26-17-00-810-816

Lavatory Smoke-Detector Contamination

- 1. Possible Causes
 - lavatory smoke detector
- 2. Job Set-up Information
 - A. Referenced Information

REFE	RENCE	DESIGNATION
AMM	26-17-00-710-001	Operational Test of the Lavatory Smoke-Detection System
AMM	26-17-15-000-001	Removal of the Lavatory Smoke Detector 1WQ
AMM	26-17-15-000-008	Removal of the Lavatory Smoke Detector (2WQ/4WQ/5WQ/6WQ/8WQ/9WQ/14WQ/15WQ)
AMM	26-17-15-400-001	Installation of the Lavatory Smoke Detector 1WQ
AMM	26-17-15-400-007	<pre>Installation of the Lavatory Smoke Detector (2WQ/4WQ/5WQ/6WQ/8WQ/9WQ/14WQ/15WQ)</pre>

- 3. Fault Confirmation
 - A. Test
 - (1) Do the operational test of the lavatory smoke-detection system (Ref. AMM TASK 26-17-00-710-001).
- 4. Fault Isolation
 - A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message SMOKE DET LAV X CONTAMINATION
 (X = location of the related lavatory)
 - replace the related lavatory smoke detector
 (Ref. AMM TASK 26-17-15-000-001), (Ref. AMM TASK 26-17-15-000-008) and
 (Ref. AMM TASK 26-17-15-400-001), (Ref. AMM TASK 26-17-15-400-007).
 - C. Do the test as given in the Para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-17-00-810-817

DEU-B CAN Bus Fault

- 1. Possible Causes
 - wiring
 - lavatory smoke detector
 - DEU-B
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE	DESIGNATION	
R R	AMM	23-73-00-740-005	BITE-test of the Cabin Intercommunication Data System (CIDS) through the CFDS	
	AMM	23-73-47-000-001	Removal of the Decoder/Encoder Unit B (300RH)	
	AMM	23-73-47-400-001	Installation of the Decoder/Encoder Unit B (300RH)	
	AMM	26-17-00-710-001	Operational Test of the Lavatory Smoke-Detection System	
	AMM	26-17-15-000-001	Rémoval of the Lavatory Smoke Detector 1WQ	
	AMM	26-17-15-000-008	Removal of the Lavatory Smoke Detector (2WQ/4WQ/5WQ/6WQ/8WQ/9WQ/14WQ/15WQ)	
	AMM	26-17-15-400-001	Installation of the Lavatory Smoke Detector 1WQ	
	AMM	26-17-15-400-007	<pre>Installation of the Lavatory Smoke Detector (2WQ/4WQ/5WQ/6WQ/8WQ/9WQ/14WQ/15WQ)</pre>	
	ASM	26-17/01		

3. Fault Confirmation

A. Test

R

- (1) Do the CIDS Interface and Power-Up Test via the CFDS (Ref. AMM TASK 23-73-00-740-005).
 - (2) Do the operational test of the lavatory smoke-detection system (Ref. AMM TASK 26-17-00-710-001).

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4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message WRG: CAN BUS / SMK DET LAV X /
 DEU-B(FIN), (X = location of the related lavatory)
 - do a check and repair the wiring between the DEU-B(FIN) and the smoke detector (Ref. ASM 26-17/01)
 - (1) If the fault continues:
 - replace the related lavatory smoke detector (Ref. AMM TASK 26-17-15-000-001), (Ref. AMM TASK 26-17-15-000-008) and (Ref. AMM TASK 26-17-15-400-001), (Ref. AMM TASK 26-17-15-400-007)
 - (2) If the fault continues:
 - replace the related DEU-B (Ref. AMM TASK 23-73-47-000-001) and (Ref. AMM TASK 23-73-47-400-001).
- C. Do the test as given in the Para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

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TASK 26-17-00-810-819

DEU-B Inoperative

- 1. Possible Causes
 - DEU-B (300RHx)
- 2. Job Set-up Information
 - A. Referenced Information

	REFERENCE	DESIGNATION		
R R R	23-73-00-810-827 AMM 23-73-00-740-005	DEU-B - Fault in DEU-B 300RHx with connected systems/devices BITE-test of the Cabin Intercommunication Data System (CIDS) through the CFDS		

- 3. Fault Confirmation
 - A. Test
- R (1) Do the CIDS Interface and Power-Up Test via the CFDS (Ref. AMM TASK 23-73-00-740-005).
 - 4. Fault Isolation
 - A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message TEST OK, no other maintenance action is necessary.
 - C. If the test gives the maintenance message DEU-B(FIN):
 do the trouble shooting procedure (Ref. TASK 23-73-00-810-827) for the
 related DEU-B (300RHx)
 - D. Do the test as given in the Para. 3.
 - 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-17-00-810-820

CIDS Data-Bus Middle-Line Inoperative

- 1. Possible Causes
 - CIDS MID BUS R
 - CIDS MID BUS L
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE	DESIGNATION
23-73-00-810-836	CIDS - Fault in the CIDS MID BUS L
23-73-00-810-837	CIDS - Fault in the CIDS MID BUS R
R AMM 23-73-00-740-005	BITE-test of the Cabin Intercommunication Data System
₹	(CIDS) through the CFDS

- 3. Fault Confirmation
 - A. Test
- (1) Do the CIDS Interface and Power-Up Test via the CFDS (Ref. AMM TASK 23-73-00-740-005).
 - 4. Fault Isolation
 - A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message CIDS MID BUS M / DIR Y (FIN),
 (M = R or L, right or left middle-line):
 - do the Trouble Shooting Procedure for CIDS MID BUS R (Ref. TASK 23-73-00-810-837) or for CIDS MID BUS L (Ref. TASK 23-73-00-810-836)
 - C. Do the test as given in the Para. 3.
 - Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-17-00-810-821

Unexpected Lavatory Smoke-Detector

- 1. Possible Causes
 - MODULE-CABIN ASSIGNMENT (115RH)
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE	DESIGNATION	
R R	AMM	23-73-00-740-005	BITE-test of the Cabin Intercommunication Data System (CIDS) through the CFDS	
		23-73-19-000-002 23-73-19-400-002	Removal of the Cabin Assignment Module (115RH) Installation of the Cabin Assignment Module (115RH)	

- 3. Fault Confirmation
 - A. Test
- R (1) Do the CIDS Interface and Power-Up Test via the CFDS (Ref. AMM TASK 23-73-00-740-005).
 - 4. Fault Isolation
 - A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
 - B. If the test confirms the fault:
 - make sure that the cabin assignment module (CAM) is applicable to the cabin layout (number and location of the lavatories),
 - replace the MODULE-CABIN ASSIGNMENT (115RH) (Ref. AMM TASK 23-73-19-000-002) and (Ref. AMM TASK 23-73-19-400-002).
 - C. Do the test as given in the Para. 3.
 - 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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EFF:

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TASK 26-17-00-810-822

Communication RS232 to CIDS Mainboard failed

- 1. Possible Causes
 - CIDS Director
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE	DESIGNATION
R R	AMM	23-73-00-740-005 23-73-34-000-001 23-73-34-400-001	BITE-test of the Cabin Intercommunication Data System (CIDS) through the CFDS Removal of the CIDS Director (101RH,102RH) Installation of the CIDS Director (101RH,102RH)

- 3. Fault Confirmation
 - A. Test
- R (1) Do the CIDS Interface and Power-Up Test via the CFDS (Ref. AMM TASK 23-73-00-740-005).
 - 4. Fault Isolation
 - A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message DIRY(10YRH)-SDF:
 - replace the related CIDS Director (10YRH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001)
 - C. Do the test given in para. 3.
 - 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TASK 26-17-00-810-823

R CIDS-SDF Channel 1 and/or 2 Failure

- 1. Possible Causes
 - DIR-CIDS, 2 (102RH)
 - DIR-CIDS, 1 (101RH)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE	DESIGNATION
R R R	AMM	23-73-34-000-001 23-73-34-400-001 31-53-34-000-001 31-53-34-400-001 26-16/02	Removal of the CIDS Director (101RH,102RH) Installation of the CIDS Director (101RH,102RH) Removal of the Flight Warning Computer (FWC) (1WW1,1WW2) Installation of the Flight Warning Computer (FWC) (1WW1,1WW2)

- 3. Fault Confirmation
- R A. If the PFR shows the message CIDS(101RH)-SDF1 and/or CIDS(102RH)-SDF2:
 - (1) Do the SYSTEM TEST of the CIDS-SDF system.
 - (a) On the MCDU:
 - Set the "SYSTEM REPORT / TEST" page
 - Set the "FIRE PROT" page
 - Set the "SMOKE" (or "SDCU" and on the subsequent page "NEXT PAGE" as specified by the installed CFDIU-standard) page
 - Set the "SYSTEM TEST" page in the CIDS-SDF menu.
 - 4. Fault Isolation

R

R

- A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
- B. One of the these procedures is applicable:
 - (1) If the test gives the maintenance message: CHECK SDF1 BITE/CIDS(101RH) - SDF1 or CHECK SDF2 BITE/CIDS(102RH) - SDF2:
 - (a) Open the C/B 15WH and 17WH of the CIDS SDF1.
 The CIDS SDF2 comes on.

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- (b) On the MCDU:
 - Do the Ground Scanning and read out the last Leg Report of the CIDS-SDF2

R

R

- $\underline{2}$ If the reports show a failure of the smoke board 2 of the DIR-CIDS, 2 (102RH):
 - Replace the DIR-CIDS, 2 (102RH).

R R

- (2) If the test gives the maintenance message CIDS(101RH)-SDF1 and CIDS(102RH)-SDF2:
 - Replace the DIR-CIDS, 1 (101RH) and DIR-CIDS, 2 (102RH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001)

R

(3) If the test gives the maintenance message: CIDS(102RH)-SDF2 BUS / CIDS(101RH)-SDF1 associated with FWC1: NO DATA FROM CIDS-SDF1 and / or FWC2: NO DATA FROM CIDS-SDF1:

R R Do a check and repair the wiring between the CIDS Directors (pins AA11J/AA11K and AA15C/AA15H).

R R (a) If the PFR-message is FWC1: NO DATA FROM CIDS-SDF1 and/or FWC2: NO DATA FROM CIDS-SDF1

R R Do a check and repair the wiring between the related FWC and the CIDS-SDF channels.

R

(b) If the fault continues:

R R R Do a check and repair the wiring between the circuit breakers
 15WH and 17WH and the CIDS Director 1 (101RH) AC/9 and AC/10 (Ref. ASM 26-16/02).

R R - Do a check and repair the wiring between the circuit breakers 14WH and 18WH and the CIDS Director 2 (102RH) AC/9 and AC/10.

R R

(4) If the test gives the maintenance message CIDS(101RH)-SDF1 and CIDS(102RH)-SDF2 associated with SMOKE LAV + CRG DET FAULT:

R R (a) Replace the DIR-CIDS, 101RH and/or DIR-CIDS 102RH (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001).

R R (b) If the fault continues:

R R Do a check and repair the wiring between the circuit breakers
 15WH and 17WH and the CIDS Director 1 (101RH) AC/9 and AC/10 (Ref. ASM 26-16/02).

R R Do a check and repair the wiring between the circuit breakers
 14WH and 18WH and the CIDS Director 2 (102RH) AC/9 and AC/10.

R

(c) If the fault continues:

R R - Replace the Flight Warning Computer FWC1 and/or FWC2 (Ref. AMM TASK 31-53-34-000-001) and (Ref. AMM TASK 31-53-34-400-001).

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R	(d) If the fault continues:
R	- Do a check and repair the wiring between the CIDS1-SDF and the
R	FWC1 and/or FWC2.
R	 Do a check and repair the wiring between the CIDS2-SDF and the
R	FWC1 and/or FWC2.

C. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

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TROUBLE SHOOTING MANUAL

TASK 26-17-00-810-824

Lavatory Smoke Detection Failed

- 1. Possible Causes
 - DIR-CIDS, 1 (101RH)
 - DIR-CIDS, 2 (102RH)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

R R	REFE	RENCE	DESIGNATION		
	AMM	23-73-00-740-005	BITE-test of the Cabin Intercommunication Data System (CIDS) through the CFDS		
	AMM	23-73-34-000-001	Removal of the CIDS Director (101RH, 102RH)		
	AMM	23-73-34-400-001	Installation of the CIDS Director (101RH,102RH)		
	ASM	23-73/01			

- 3. Fault Confirmation
 - A. Test
- (1) Do the CIDS Interface and Power-Up Test via the CFDS (Ref. AMM TASK 23-73-00-740-005).
 - 4. Fault Isolation
 - A. If the test gives a different maintenance message: - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message CIDS(102RH)-SDF2 BUS / CIDS(101RH)-SDF1 R R CIDS(101RH)-SDF1 BUS / CIDS(102RH)-SDF2:
 - (1) Replace the DIR-CIDS, 1 (101RH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001).
 - (2) If the fault continues:
- Replace the DIR-CIDS, 2 (102RH) (Ref. AMM TASK 23-73-34-000-001) R and (Ref. AMM TASK 23-73-34-400-001). R

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R R

R

R R

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₹	(3) If the fault	continues:		
₹	- Do a check	and repair the wiring between the	CIDS-SDF1 (AA15C	and
₹	AA15H) and	CIDS-SDF2 (AA11J and AA11K) (Ref.	ASM 23-73/01).	
₹	(4) If the fault	continues:		
₹	- Do a check	and repair the wiring between the	CIDS-DIR1 (AA13A	and
₹	AA13B) and	CIDS-DIR2 (AA13E and AA13F) (Ref.	ASM 23-73/01).	

C. Do the test as given in the Para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

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TROUBLE SHOOTING MANUAL

TASK 26-17-00-810-825

CIDS-SDF - Loss of Power Supply

1. Possible Causes

- Circuit Breakers
- CIDS Director (10YRH)
- aircraft wiring

2. Job Set-up Information

A. Referenced Information

REFERENCE

DESIGNATION

AMM 23-73-34-000-001 Removal of the CIDS Director (101RH,102RH)
AMM 23-73-34-400-001 Installation of the CIDS Director (101RH,102RH)

3. Fault Confirmation

A. Test

ASM 26-16/02

- (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH.
- (2) After 10s, close the circuit breakers again.
- (3) After a minimum time of 30s, do the CIDS-SDF SYSTEM TEST:
 - (a) On the MCDU:
 - Push the line key adjacent to the SDCU indication.
 - The CIDS-SDF page comes on and shows: SDCU FUNCTION IS INTEGRATED IN CIDS-DIRECTORS 101RH & 102RH, CALLED CIDS-SDFx.
 - Push the NEXT PAGE button.
 - On the MCDU, the CIDS-SDF main menu comes on.
 - Push the line key adjacent to SYSTEM TEST.

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message CIDS(101RH)-SDF 28VDC1 SPLY:
 - Replace the Circuit Breakers related to the essential power of SDF channel Y.
 - If the test gives the maintenance message CIDS(10YRH)-SDFY 28VDC2 SPLY: - Replace the Circuit Breakers related to the normal power of SDF channel Υ.

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- (1) If the fault continues:
 - Replace the related CIDS Director (10YRH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001).
- (2) If the fault continues:
 - Do a check and repair of the aircraft wiring between the related circuit breakers and the CIDS Director (10YRH) A/C9 and A/C10 (Ref. ASM 26-16/02).
- C. Do the test given in para. 3.

5. Close-up

R

R

A. Put the aircraft back to its initial configuration.

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26-17-00

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TROUBLE SHOOTING MANUAL

TASK 26-17-00-810-826

No Lavatory Smoke Detection available

- 1. Possible Causes
 - CIDS Director 1 (101RH)
 - wiring
 - CIDS Director 2 (102RH)
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE	DESIGNATION	
R R	АММ	23-73-00-740-005 23-73-34-000-001 23-73-34-400-001	BITE-test of the Cabin Intercommunication Data System (CIDS) through the CFDS Removal of the CIDS Director (101RH,102RH) Installation of the CIDS Director (101RH,102RH)	

- 3. Fault Confirmation
 - A. Test
- R (1) Do the CIDS Interface and Power-Up Test via the CFDS (Ref. AMM TASK 23-73-00-740-005).
 - 4. Fault Isolation
 - A. If the test gives a different maintenance message:Do the troubleshooting related to the maintenance message.
 - B. If the test gives the maintenance message NO LAV DATA/CIDS(102RH)-SDF2 BUS/CIDS(101RH)-SDF1:
 - (1) Replace the CIDS Director 1 (101RH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001).
 - (2) If the fault continues:
 - Do a check and repair the wiring between the CIDS Director 1 (101RH) and the CIDS Director 2 (102RH).
 - C. If the test gives the maintenance message NO LAV DATA/CIDS(101RH)-SDF1 BUS/CIDS(102RH)-SDF2:
 - (1) Replace the CIDS Director 2 (102RH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001).

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- R (2) If the fault continues:
 R Do a check and repair the wiring between the CIDS Director 2
 R (102RH) and the CIDS Director 1 (101RH).
- R D. Do the test given in para. 3.
- R 5. Close-up
- R A. Put the aircraft back to its initial configuration.

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```
R TASK 26-17-00-810-827
  Fault in Circuit Breaker or CAN Bus
  1. Possible Causes
      - DIR-CIDS, 1 (101RH)
R
      - DIR-CIDS, 2 (102RH)
      - circuit breaker
      - aircraft wiring
  2. Job Set-up Information
      A. Referenced Information
  REFERENCE
                             DESIGNATION
  AMM 23-73-34-000-001
                             Removal of the CIDS Director (101RH, 102RH)
  AMM 23-73-34-400-001
                             Installation of the CIDS Director (101RH, 102RH)
  3. Fault Confirmation
     A. Test
R
R
         (1) Do the test of the CIDS-SDF system.
  4. Fault Isolation
      A. If the test gives a different maintenance message:
R
R
         - Do the trouble shooting procedure related to the maintenance message.
      B. If the test gives the maintenance message CIRCUIT BREAKER 15WH/ CAN BUS
R
R
         (1) Do a check of the circuit breaker.
             (a) If the circuit breaker is blown, replace it.
R
             (b) If the circuit breaker is open, close it.
R
         (2) If the fault continues:
R
             (a) Do a check and repair the aircraft wiring between the circuit
R
                 breaker and the CIDS-SDF1.
R
         (3) If the fault continues:
R
             (a) Do a check and repair the aircraft wiring between Power Bus Bar
R
                 801pp and the circuit breaker.
R
```

EFF: 456-475,

26-17-00

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- R (4) If the fault continues:
- R (a) Replace the DIR-CIDS, 1 (101RH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001).
- R C. If the test gives the maintenance message CIRCUIT BREAKER 14WH/ CAN BUS
 R B:
- R (1) Do a check of the circuit breaker.
- R (a) If the circuit breaker is blown, replace it.
- R (b) If the circuit breaker is open, close it.
- R (2) If the fault continues:
- R (a) Do a check and repair the aircraft wiring between the circuit B breaker and the CIDS-SDF2.
- R (3) If the fault continues:
- R (a) Do a check and repair the aircraft wiring between Power Bus Bar 204pp and the circuit breaker.
- R (4) If the fault continues:
- R (a) Replace the DIR-CIDS, 2 (102RH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001).
- R D. Do the test as given in the Para. 3.
- R 5. Close-up
- R A. Put the aircraft back to its initial configuration.

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EFF:

456-475,

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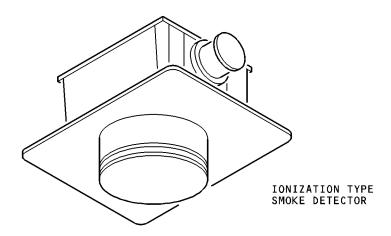
LAVATORY SMOKE DETECTION - TASK SUPPORTING DATA

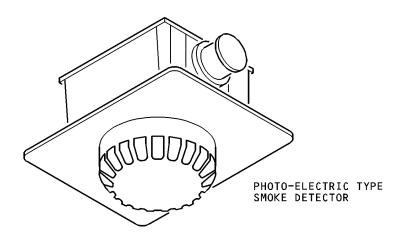
EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749, SROS

26-17-00

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Lavatory Smoke Detector - Visual Identification Figure 301

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

SROS

ALMO

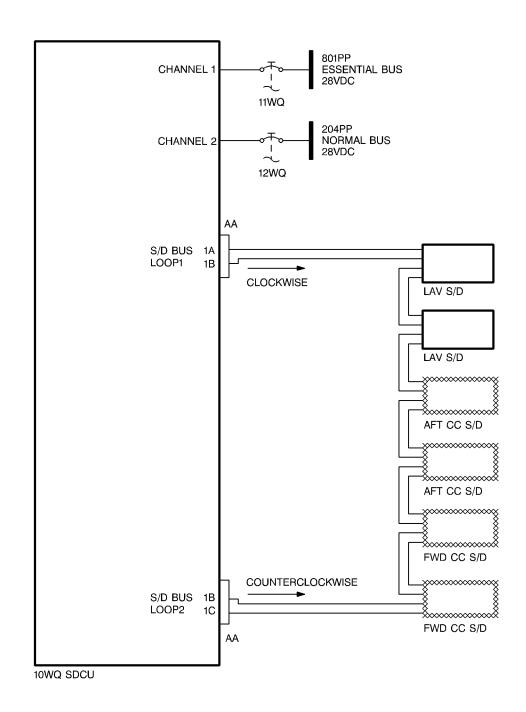
17 00

NL6 26

26-17-00

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NOTE:

CLOCKWISE: START LAV SD IN ASCENDING ORDER COUNTERCLOCKWISE: START CC SD IN ASCENDING ORDER

Block Diagram - SDCU and connected Smoke Detectors Figure 302

R EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749, SROS

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TROUBLE SHOOTING MANUAL

ENGINE FIRE EXTINGUISHING - FAULT ISOLATION PROCEDURES

TASK 26-21-00-810-801

The SQUIB Legend of the ENG 1/AGENT 1 Pushbutton Switch does not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - CARTRIDGE-ENG1 FIRE EXTING BOTTLE 1 (5WE1)
 - lamp of the SQUIB legend of the ENG 1/AGENT 1 pushbutton switch
 - ENG 1/AGENT 1 pushbutton switch
 - wiring from the engine 1 fire extinguishing bottle 1 cartridge (5WE1) to the ENG/APU FIRE panel (1WD)
 - wiring from the circuit breaker 1WE1 to the ENG/APU FIRE panel (1WD)
 - wiring from the circuit breaker 2WE1 to the ENG/APU FIRE panel (1WD)
- 2. Job Set-up Information
- R A. Fixtures, Tools, Test and Support Equipment

R ------

R REFERENCE QTY DESIGNATION

R No specific MULTIMETER - FLUKE 75

R B. Referenced Information

DEFEDENCE DESTGNATION

REFERENCE DESIGNATION

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib

AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD)

AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD)

AMM 26-21-41-000-004 Removal of the Cartridge of the Engine

Fire-Extinguisher Bottle

AMM 26-21-41-400-004 Installation of the Cartridge of the Engine

Fire-Extinguisher Bottle

ASM 26-21/01

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY

30LP X06

EFF : ALL

26-21-00

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TROUBLE SHOOTING MANUAL

B. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the SQUIB legend of the ENG 1/AGENT 1 pushbutton switch does not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the SQUIB legend of the ENG 1/AGENT 1 pushbutton switch comes on.
 - (1) If the SQUIB legend does not come on:
 - (a) Replace the lamp of the SQUIB legend of the ENG 1/AGENT 1 pushbutton switch.
 - If the fault continues: replace the ENG 1/AGENT 1 pushbutton switch.
 - (b) Or replace the ENG 1/AGENT 1 pushbutton switch that has LEDs (Ref. ESPM 20-45-11).
 - (2) If the SQUIB legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - replace the CARTRIDGE-ENG1 FIRE EXTING BOTTLE 1 (5WE1) (Ref. AMM TASK 26-21-41-000-004) and (Ref. AMM TASK 26-21-41-400-004).
 - (b) If the fault continues:
 - CAUTION: WHEN YOU DO THE TESTS OF A SQUIB, USE A MULTIMETER THAT KEEPS THE TEST CURRENT AT 0.040 AMPS MAXIMUM AT EACH POSITION OF THE SELECTOR SWITCH. TOO MUCH AMPERAGE WILL FIRE THE SQUIB AND CAUSE DISCHARGE OF THE RELATED FIRE EXTINGUISHING BOTTLE.
 - CAUTION: WHEN YOU DO THIS TEST, MAKE SURE THAT THE SQUIB IS INSTALLED IN THE FIRE EXTINGUISHING BOTTLE. IF THE SQUIB IS REMOVED FROM THE BOTTLE, YOU MUST NOT DO THIS TEST BUT ONLY THE TESTS GIVEN IN THE CMM.
 - do a check of the wiring from the engine 1 fire extinguishing bottle 1 cartridge (5WE1) to the ENG/APU FIRE panel (1WD) (Ref. ASM 26-21/01).
 - NOTE: You can measure the resistance of the squib with a
 MULTIMETER FLUKE 75 or equivalent. Make sure that each
 internal squib bridgewire resistance is 1 +/- 0.1 ohm.

EFF: ALL

26-21-00

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R

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R R

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R

R R

R

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R R

TROUBLE SHOOTING MANUAL

- 1 If there is no continuity: - repair the above wiring.
- 2 If there is continuity:
 - do a check of the wiring from the circuit breaker 1WE1 to the ENG/APU FIRE panel (1WD) pin A/F (Ref. ASM 26-21/01).
 - <u>a</u> If there is no continuity:repair the above wiring.
 - b If there is continuity:
 - do a check and repair the wiring from the circuit breaker 2WE1 to the ENG/APU FIRE panel (1WD) pin A/H (Ref. ASM 26-21/01).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

EFF: ALL 26-21-00

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TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-802

The SQUIB Legend of the ENG 1/AGENT 2 Pushbutton Switch does not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - CARTRIDGE-ENG1 FIRE EXTING BOTTLE 2 (7WE1)
 - lamp of the SQUIB legend of the ENG 1/AGENT 2 pushbutton switch
 - ENG 1/AGENT 2 pushbutton switch
 - wiring from the engine 1 fire extinguishing bottle 2 cartridge (7WE1) to the ENG/APU FIRE panel (1WD)
 - wiring from the circuit breaker 1WE2 to the ENG/APU FIRE panel (1WD)
 - wiring from the circuit breaker 2WE2 to the ENG/APU FIRE panel (1WD)
- 2. Job Set-up Information
- R A. Fixtures, Tools, Test and Support Equipment

R ------

R REFERENCE QTY DESIGNATION

R -----

R No specific MULTIMETER - FLUKE 75

R B. Referenced Information

REFERENCE DESIGNATION

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib

AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD)

AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD)

AMM 26-21-41-000-004 Removal of the Cartridge of the Engine

Fire-Extinguisher Bottle

AMM 26-21-41-400-004 Installation of the Cartridge of the Engine

Fire-Extinguisher Bottle

ASM 26-21/01

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY

30LP X06

EFF: ALL

26-21-00 Page 204 May 01/04

TROUBLE SHOOTING MANUAL

B. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the SQUIB legend of the ENG 1/AGENT 2 pushbutton switch does not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the SQUIB legend of the ENG 1/AGENT 2 pushbutton switch comes on.
 - (1) If the SQUIB legend does not come on:
 - (a) Replace the lamp of the SQUIB legend of the ENG 1/AGENT 2 pushbutton switch.
 - If the fault continues: replace the ENG 1/AGENT 2 pushbutton switch.
 - (b) Or replace the ENG 1/AGENT 2 pushbutton switch that has LEDs (Ref. ESPM 20-45-11).
 - (2) If the SQUIB legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - replace the CARTRIDGE-ENG1 FIRE EXTING BOTTLE 2 (7WE1) (Ref. AMM TASK 26-21-41-000-004) and (Ref. AMM TASK 26-21-41-400-004).
 - (b) If the fault continues:
 - CAUTION: WHEN YOU DO THE TESTS OF A SQUIB, USE A MULTIMETER THAT KEEPS THE TEST CURRENT AT 0.040 AMPS MAXIMUM AT EACH POSITION OF THE SELECTOR SWITCH. TOO MUCH AMPERAGE WILL FIRE THE SQUIB AND CAUSE DISCHARGE OF THE RELATED FIRE EXTINGUISHING BOTTLE.
 - CAUTION: WHEN YOU DO THIS TEST, MAKE SURE THAT THE SQUIB IS INSTALLED IN THE FIRE EXTINGUISHING BOTTLE. IF THE SQUIB IS REMOVED FROM THE BOTTLE, YOU MUST NOT DO THIS TEST BUT ONLY THE TESTS GIVEN IN THE CMM.
 - do a check of the wiring from the engine 1 fire extinguishing bottle 2 cartridge (7WE1) to the ENG/APU FIRE panel (1WD) (Ref. ASM 26-21/01).
 - NOTE : You can measure the resistance of the squib with a MULTIMETER FLUKE 75 or equivalent. Make sure that each internal squib bridgewire resistance is 1 +/- 0.1 ohm.

EFF: ALL

26-21-00

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R

R

R R

R

R

R R

R

R

R R

TROUBLE SHOOTING MANUAL

- 1 If there is no continuity: - repair the above wiring.
- 2 If there is continuity:
 - do a check of the wiring from the circuit breaker 1WE2 to the ENG/APU FIRE panel (1WD) pin B/F (Ref. ASM 26-21/01).
 - <u>a</u> If there is no continuity:repair the above wiring.
 - b If there is continuity:
 - do a check and repair the wiring from the circuit breaker 2WE2 to the ENG/APU FIRE panel (1WD) pin B/H (Ref. ASM 26-21/01).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

EFF: ALL 26-21-00

TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-803

The SQUIB Legend of the ENG 2/AGENT 1 Pushbutton Switch does not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - CARTRIDGE-ENG2 FIRE EXTING BOTTLE 1 (5WE2)
 - lamp of the SQUIB legend of the ENG 2/AGENT 1 pushbutton switch
 - ENG 2/AGENT 1 pushbutton switch
 - wiring from the engine 2 fire extinguishing bottle 2 cartridge to the ENG/APU FIRE panel (1WD)
 - wiring from the circuit breaker 1WE1 to the ENG/APU FIRE panel (1WD)
 - wiring from the circuit breaker 2WE1 to the ENG/APU FIRE panel (1WD)
- 2. Job Set-up Information
- A. Fixtures, Tools, Test and Support Equipment R
- ______

QTY DESIGNATION

- No specific MULTIMETER - FLUKE 75 R
- B. Referenced Information R

REFERENCE **DESIGNATION**

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD) AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD) AMM 26-21-41-000-004 Removal of the Cartridge of the Engine Fire-Extinguisher Bottle AMM 26-21-41-400-004 Installation of the Cartridge of the Engine

Fire-Extinguisher Bottle

ASM 26-21/01

- Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

______ PANEL DESIGNATION IDENT. LOCATION

30LP X06

122VU LIGHTING/TST/BOARD/SPLY

26-21-00 EFF: ALL

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TROUBLE SHOOTING MANUAL

B. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the SQUIB legend of the ENG 2/AGENT 1 pushbutton switch does not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the SQUIB legend of the ENG 2/AGENT 1 pushbutton switch comes on.
 - (1) If the SQUIB legend does not come on:
 - (a) Replace the lamp of the SQUIB legend of the ENG 2/AGENT 1 pushbutton switch.
 - If the fault continues: replace the ENG 2/AGENT 1 pushbutton switch.
 - (b) Or replace the ENG 2/AGENT 1 pushbutton switch that has LEDs (Ref. ESPM 20-45-11).
 - (2) If the SQUIB legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - replace the CARTRIDGE-ENG2 FIRE EXTING BOTTLE 1 (5WE2) (Ref. AMM TASK 26-21-41-000-004) and (Ref. AMM TASK 26-21-41-400-004).
 - (b) If the fault continues:
 - CAUTION: WHEN YOU DO THE TESTS OF A SQUIB, USE A MULTIMETER THAT KEEPS THE TEST CURRENT AT 0.040 AMPS MAXIMUM AT EACH POSITION OF THE SELECTOR SWITCH. TOO MUCH AMPERAGE WILL FIRE THE SQUIB AND CAUSE DISCHARGE OF THE RELATED FIRE EXTINGUISHING BOTTLE.
 - CAUTION: WHEN YOU DO THIS TEST, MAKE SURE THAT THE SQUIB IS INSTALLED IN THE FIRE EXTINGUISHING BOTTLE. IF THE SQUIB IS REMOVED FROM THE BOTTLE, YOU MUST NOT DO THIS TEST BUT ONLY THE TESTS GIVEN IN THE CMM.
 - do a check of the wiring from the engine 2 fire extinguishing bottle 2 cartridge to the ENG/APU FIRE panel (1WD) (Ref. ASM 26-21/01).
 - NOTE: You can measure the resistance of the squib with a MULTIMETER FLUKE 75 or equivalent. Make sure that each internal squib bridgewire resistance is 1 +/- 0.1 ohm.

EFF: ALL 26-21-00

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SROS

R R

R R

R

R

R R

R

R

R R

TROUBLE SHOOTING MANUAL

- 1 If there is no continuity: - repair the above wiring.
- 2 If there is continuity:
 - do a check of the wiring from the circuit breaker 1WE1 to the ENG/APU FIRE panel (1WD) pin D/F, (Ref. ASM 26-21/01).
 - <u>a</u> If there is no continuity:repair the above wiring.
 - b If there is continuity:
 - do a check and repair the wiring from the circuit breaker 2WE1 to the ENG/APU FIRE panel (1WD) pin D/H (Ref. ASM 26-21/01).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

EFF: ALL 26-21-00

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TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-804

The SQUIB Legend of the ENG 2/AGENT 2 Pushbutton Switch does not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - CARTRIDGE-ENG2 FIRE EXTING BOTTLE 2 (7WE2)
 - lamp of the SQUIB legend of the ENG 2/AGENT 2 pushbutton switch
 - ENG 2/AGENT 2 pushbutton switch
 - wiring from the engine 2 fire extinguishing bottle 2 cartridge to the ENG/APU FIRE panel (1WD)
 - wiring from the circuit breaker 1WE2 to the ENG/APU FIRE panel (1WD)
 - wiring from the circuit breaker 2WE2 to the ENG/APU FIRE panel (1WD)
- 2. Job Set-up Information
- R A. Fixtures, Tools, Test and Support Equipment

R ------

R REFERENCE QTY DESIGNATION

R -----

R No specific MULTIMETER - FLUKE 75

R B. Referenced Information

REFERENCE DESIGNATION

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib
AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD)

AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD)

AMM 26-21-41-000-004 Removal of the Cartridge of the Engine

Fire-Extinguisher Bottle

AMM 26-21-41-400-004 Installation of the Cartridge of the Engine Fire-Extinguisher Bottle

ASM 26-21/01

- Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY

30LP X06

EFF: ALL Page 210 May 01/04

TROUBLE SHOOTING MANUAL

B. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the SQUIB legend of the ENG 2/AGENT 2 pushbutton switch does not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the SQUIB legend of the ENG 2/AGENT 2 pushbutton switch comes on.
 - (1) If the SQUIB legend does not come on:
 - (a) Replace the lamp of the SQUIB legend of the ENG 2/AGENT 2 pushbutton switch.
 - If the fault continues: replace the ENG 2/AGENT 2 pushbutton switch.
 - (b) Or replace the ENG 2/AGENT 2 pushbutton switch that has LEDs (Ref. ESPM 20-45-11).
 - (2) If the SQUIB legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - replace the CARTRIDGE-ENG2 FIRE EXTING BOTTLE 2 (7WE2) (Ref. AMM TASK 26-21-41-000-004) and (Ref. AMM TASK 26-21-41-400-004).
 - (b) If the fault continues:
 - CAUTION: WHEN YOU DO THE TESTS OF A SQUIB, USE A MULTIMETER THAT KEEPS THE TEST CURRENT AT 0.040 AMPS MAXIMUM AT EACH POSITION OF THE SELECTOR SWITCH. TOO MUCH AMPERAGE WILL FIRE THE SQUIB AND CAUSE DISCHARGE OF THE RELATED FIRE EXTINGUISHING BOTTLE.
 - CAUTION: WHEN YOU DO THIS TEST, MAKE SURE THAT THE SQUIB IS INSTALLED IN THE FIRE EXTINGUISHING BOTTLE. IF THE SQUIB IS REMOVED FROM THE BOTTLE, YOU MUST NOT DO THIS TEST BUT ONLY THE TESTS GIVEN IN THE CMM.
 - do a check of the wiring from the engine 2 fire extinguishing bottle 2 cartridge to the ENG/APU FIRE panel (1WD) (Ref. ASM 26-21/01).
 - NOTE : You can measure the resistance of the squib with a MULTIMETER FLUKE 75 or equivalent. Make sure that each internal squib bridgewire resistance is 1 +/- 0.1 ohm.

EFF: ALL

26-21-00

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SROS

R R

R R

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R R

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R R

TROUBLE SHOOTING MANUAL

- 1 If there is no continuity: - repair the above wiring.
- 2 If there is continuity:
 - do a check of the wiring from the circuit breaker 1WE2 to the ENG/APU FIRE panel (1WD) pin C/F (Ref. ASM 26-21/01).
 - <u>a</u> If there is no continuity:repair the above wiring.
 - b If there is continuity:
 - do a check and repair the wiring from the circuit breaker 2WE2 to the ENG/APU FIRE panel (1WD) pin C/H (Ref. ASM 26-21/01).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

EFF: ALL 26-2

26-21-00

TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-805

The SQUIB Legends of the ENG 1 and ENG 2/AGENT 1 Pushbutton Switches do not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - C/B-ENGINE/ENG 1 AND 2 FIRE EXTIG BTL 1/SQUIB/A (1WE1)
 - C/B-ENGINE/ENG 1 AND 2 FIRE EXTIG BTL 1/SQUIB/B (2WE1)
- 2. Job Set-up Information
 - A. Referenced Information

							-
REFERENCE			DESIGNATION				
							-
A MM	27	42	00	740	004	Occasticant Charle of Land (Caville	

- R AMM 26-12-00-710-001 Operational Check of Loop/Squib
 AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD)
 AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD)
 - 3. Fault Confirmation
 - A. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
 - 4. Fault Isolation
 - A. If the SQUIB legends of the ENG 1 and ENG 2/AGENT 1 pushbutton switches do not come on during the fire test:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (1) If the fault continues:
 - replace the C/B-ENGINE/ENG 1 AND 2 FIRE EXTIG BTL 1/SQUIB/A (1WE1).
 - (2) If the fault continues:
 - replace the C/B-ENGINE/ENG 1 AND 2 FIRE EXTIG BTL 1/SQUIB/B (2WE1).
 - B. Do the test given in Para. 3.

EFF: ALL 26-21-00

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TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-806

The SQUIB Legends of the ENG 1 and ENG 2/AGENT 2 Pushbutton Switches do not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - C/B-ENGINE/ENG 1 AND 2 FIRE EXTIG BTL 2/SQUIB/A (1WE2)
 - C/B-ENGINE/ENG 1 AND 2 FIRE EXTIG BTL 2/SQUIB/B (2WE2)
- 2. Job Set-up Information
 - A. Referenced Information

	REFERENCE	DESIGNATION			
R	AMM 26-12-00-710-001	Operational Check of Loop/Squib			

- R AMM 26-12-00-710-001 Operational Check of Loop/Squib
 AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD)
 AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD)
 - 3. Fault Confirmation
 - A. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
 - 4. Fault Isolation
 - A. If the SQUIB legends of the ENG 1 and ENG 2/AGENT 2 pushbutton switches do not come on during the fire test:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (1) If the fault continues:
 - replace the C/B-ENGINE/ENG 1 AND 2 FIRE EXTIG BTL 2/SQUIB/A (1WE2).
 - (2) If the fault continues:
 - replace the C/B-ENGINE/ENG 1 AND 2 FIRE EXTIG BTL 2/SQUIB/B (2WE2).
 - B. Do the test given in Para. 3.

EFF: ALL 26-21-00

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TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-807

The SQUIB and DISCH Legends of the ENG 1/AGENT 1 Pushbutton Switch do not Come on

- 1. Possible Causes
 - lamps of the ENG 1/AGENT 1 pushbutton switch
 - ENG 1/AGENT 1 pushbutton switch
 - wiring of the 5VAC signal at the ENG 1/AGENT 1 pushbutton switch
 - wiring of the ground signal at the ENG 1/AGENT 1 pushbutton switch
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE **DESIGNATION**

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib ASM 26-21/01

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY

switch.

30LP X06

- B. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
- 4. Fault Isolation
 - A. If the SQUIB and DISCH legends of the ENG 1/AGENT 1 pushbutton switch do not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the SQUIB and DISCH legends come on.
 - (1) If the SQUIB and DISCH legends do not come on:
 - (a) Replace the lamps of the ENG 1/AGENT 1 pushbutton switch. If the fault continues: replace the ENG 1/AGENT 1 pushbutton

EFF: ALL

26-21-00

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TROUBLE SHOOTING MANUAL

R (b) Or replace the ENG 1/AGENT 1 pushbutton switch that has LEDs R (Ref. ESPM 20-45-11).

- (c) If the fault continues:
 - do a check and repair the wiring of the 5VAC signal at the ENG 1/AGENT 1 pushbutton switch from the ENG/APU FIRE panel (1WD) pin A/C to the first terminal block (Ref. ASM 26-21/01).
- (2) If the SQUIB and DISCH legends come on:
 - do a check and repair the wiring of the ground signal at the ENG
 1/AGENT 1 pushbutton switch on the ENG/APU FIRE panel pin A/D (Ref. ASM 26-21/01) .
- B. Do the test given in Para. 3.

5. Close-up

R

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

26-21-00

EFF: ALL

TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-808

The SQUIB and DISCH Legends of the ENG 1/AGENT 2 Pushbutton Switch do not Come on

- 1. Possible Causes
 - lamps of the ENG 1/AGENT 2 pushbutton switch
 - ENG 1/AGENT 2 pushbutton switch
 - wiring of the 5VAC signal at the ENG 1/AGENT 2 pushbutton switch
 - wiring of the ground signal at the ENG 1/AGENT 2 pushbutton switch
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE **DESIGNATION**

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib ASM 26-21/01

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY

30LP X06

- B. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
- 4. Fault Isolation
 - A. If the SQUIB and DISCH legends of the ENG 1/AGENT 2 pushbutton switch do not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the SQUIB and DISCH legends come on.
 - (1) If the SQUIB and DISCH legends do not come on:
 - (a) Replace the lamps of the ENG 1/AGENT 2 pushbutton switch.
 - If the fault continues: replace the ENG 1/AGENT 2 pushbutton switch.

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- R (b) Or replace the ENG 1/AGENT 2 pushbutton switch that has LEDs R (Ref. ESPM 20-45-11).
 - (c) If the fault continues:
 - do a check and repair the wiring of the 5VAC signal at the ENG 1/AGENT 2 pushbutton switch from the ENG/APU FIRE panel (1WD) pin B/C to the first terminal block (Ref. ASM 26-21/01).
 - (2) If the SQUIB and DISCH legends come on:
 - do a check and repair the wiring of the ground signal at the ENG
 1/AGENT 2 pushbutton switch on the ENG/APU FIRE panel pin B/D (Ref. ASM 26-21/01) .
 - B. Do the test given in Para. 3.

5. Close-up

R

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

EFF: ALL 26-21-00

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TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-809

The SQUIB and DISCH Legends of the ENG 2/AGENT 1 Pushbutton Switch do not Come on

- 1. Possible Causes
 - lamps of the ENG 2/AGENT 1 pushbutton switch
 - ENG 2/AGENT 1 pushbutton switch
 - wiring of the 5VAC signal at the ENG 2/AGENT 1 pushbutton switch
 - wiring of the ground signal at the ENG 2/AGENT 1 pushbutton switch
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE **DESIGNATION**

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib ASM 26-21/01

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY

30LP X06

- B. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
- 4. Fault Isolation
 - A. If the SQUIB and DISCH legends of the ENG 2/AGENT 1 pushbutton switch do not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the SQUIB and DISCH legends come on.
 - (1) If the SQUIB and DISCH legends do not come on:
 - (a) Replace the lamps of the ENG 2/AGENT 1 pushbutton switch.
 - If the fault continues: replace the ENG 2/AGENT 1 pushbutton switch.

EFF: ALL **26-21-00**

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TROUBLE SHOOTING MANUAL

- R (b) Or replace the ENG 2/AGENT 1 pushbutton switch that has LEDs R (Ref. ESPM 20-45-11).
 - (c) If the fault continues:
 - do a check and repair the wiring of the 5VAC signal at the ENG 2/AGENT 1 pushbutton switch from the ENG/APU FIRE panel (1WD) pin D/C to the first terminal block (Ref. ASM 26-21/01).
 - (2) If the SQUIB and DISCH legends come on:
 - do a check and repair the wiring of the ground signal at the ENG
 2/AGENT 1 pushbutton switch on the ENG/APU FIRE panel (1WD) pin D/D
 (Ref. ASM 26-21/01).
 - B. Do the test given in Para. 3.

5. Close-up

R

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

26-21-00

EFF: ALL

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TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-810

The SQUIB and DISCH Legends of the ENG 2/AGENT 2 Pushbutton Switch do not Come on

- 1. Possible Causes
 - lamps of the ENG 2/AGENT 2 pushbutton switch
 - ENG 2/AGENT 2 pushbutton switch
 - wiring of the 5VAC signal at the ENG 2/AGENT 2 pushbutton switch
 - wiring of the ground signal at the ENG 2/AGENT 2 pushbutton switch
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE **DESIGNATION**

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib ASM 26-21/01

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

PANEL DESIGNATION

IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY

______ 30LP X06

B. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the SQUIB and DISCH legends of the ENG 2/AGENT 2 pushbutton switch do not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the SQUIB and DISCH legends come on.
 - (1) If the SQUIB and DISCH legends do not come on:
 - (a) Replace the lamps of the ENG 2/AGENT 2 pushbutton switch.
 - If the fault continues: replace the ENG 2/AGENT 2 pushbutton switch.

EFF: ALL **26-21-00**

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TROUBLE SHOOTING MANUAL

- R (b) Or replace the ENG 2/AGENT 2 pushbutton switch that has LEDs R (Ref. ESPM 20-45-11).
 - (c) If the fault continues:
 - do a check and repair the wiring of the 5VAC signal at the ENG 2/AGENT 2 pushbutton switch from the ENG/APU FIRE panel (1WD) pin C/C to the first terminal block (Ref. ASM 26-21/01).
 - (2) If the SQUIB and DISCH legends come on:
 - do a check and repair the wiring of the ground signal at the ENG
 2/AGENT 2 pushbutton switch on the ENG/APU FIRE panel (1WD) pin C/D
 (Ref. ASM 26-21/01).
 - B. Do the test given in Para. 3.

5. Close-up

R

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

| 26-21-00

EFF: ALL

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TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-811

The DISCH Legend of the ENG 1/AGENT 1 Pushbutton Switch does not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - lamp of the DISCH legend of the ENG 1/AGENT 1 pushbutton switch
 - ENG 1/AGENT 1 pushbutton switch
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE	DESIGNATION

ESPM 20-45-11

R AMM 26-12-00-710-001

Operational Check of Loop/Squib

AMM 26-12-12-000-001

Removal of the ENG/APU Fire Panel (1WD)

- AMM 26-12-12-400-001
- Installation of the ENG/APU Fire Panel (1WD)
- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

B. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the DISCH legend of the ENG 1/AGENT 1 pushbutton switch does not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST, and do a check to see if the DISCH legend of the ENG 1/AGENT 1 pushbutton switch comes on.
 - (1) If the DISCH legend does not come on:
 - (a) Replace the lamp of the DISCH legend of the ENG 1/AGENT 1 pushbutton switch.
 - If the fault continues: replace the ENG 1/AGENT 1 pushbutton switch.

EFF: ALL 26-21-00

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TROUBLE SHOOTING MANUAL

R R

- (b) Or replace the ENG 1/AGENT 1 pushbutton switch that has LEDs (Ref. ESPM 20-45-11).
- (2) If the DISCH legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

EFF: ALL

26-21-00

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TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-812

The DISCH Legend of the ENG 1/AGENT 2 Pushbutton Switch does not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - lamp of the DISCH legend of the ENG 1/AGENT 2 pushbutton switch
 - ENG 1/AGENT 2 pushbutton switch
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE DESIGNATION

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib
AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD)
AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD)

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

______ PANEL DESIGNATION IDENT. LOCATION 30LP 122VU LIGHTING/TST/BOARD/SPLY X06

- B. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
- 4. Fault Isolation
 - A. If the DISCH legend of the ENG 1/AGENT 2 pushbutton switch does not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST, and do a check to see if the DISCH legend of the ENG 1/AGENT 2 pushbutton switch comes on.
 - (1) If the DISCH legend does not come on:
 - (a) Replace the lamp of the DISCH legend of the ENG 1/AGENT 2 pushbutton switch.
 - If the fault continues: replace the ENG 1/AGENT 2 pushbutton switch.

26-21-00 EFF: ALL

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TROUBLE SHOOTING MANUAL

- R R
- (b) Or replace the ENG 1/AGENT 2 pushbutton switch that has LEDs (Ref. ESPM 20-45-11).
- (2) If the DISCH legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- B. Do the test given in Para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

EFF: ALL

26-21-00

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TROUBLE SHOOTING MANUAL

TASK 26-21-00-810-813

The DISCH Legend of the ENG 2/AGENT 1 Pushbutton Switch does not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - lamp of the DISCH legend of the ENG 2/AGENT 1 pushbutton switch
 - ENG 2/AGENT 1 pushbutton switch
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE DESIGNATION

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib
AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD)
AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD)

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

______ PANEL DESIGNATION IDENT. LOCATION

122VU LIGHTING/TST/BOARD/SPLY

30LP X06

B. Test

(1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).

4. Fault Isolation

- A. If the DISCH legend of the ENG 2/AGENT 1 pushbutton switch does not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the DISCH legend of the ENG 2/AGENT 1 pushbutton switch comes on.
 - (1) If the DISCH legend does not come on:
 - (a) Replace the lamp of the DISCH legend of the ENG 2/AGENT 1 pushbutton switch.
 - If the fault continues: replace the ENG 2/AGENT 1 pushbutton switch.

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- (b) Or replace the ENG 2/AGENT 1 pushbutton switch that has LEDs (Ref. ESPM 20-45-11).
- (2) If the DISCH legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

EFF: ALL

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TASK 26-21-00-810-814

The DISCH Legend of the ENG 2/AGENT 2 Pushbutton Switch does not Come on

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - lamp of the DISCH legend of the ENG 2/AGENT 2 pushbutton switch
 - ENG 2/AGENT 2 pushbutton switch
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE	DESIGNATION

ESPM 20-45-11

R AMM 26-12-00-710-001 Operational Check of Loop/Squib
AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD)

AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD)

- 3. Fault Confirmation
 - A. Make sure that this(these) circuit breaker(s) is(are) closed:

- B. Test
 - (1) Do the operational test of the engine fire and overheat detection (loop/squib) (Ref. AMM TASK 26-12-00-710-001).
- 4. Fault Isolation
 - A. If the DISCH legend of the ENG 2/AGENT 2 pushbutton switch does not come on during the fire test:
 - on the panel 25VU, set the ANN LT switch to TEST and do a check to see if the DISCH legend of the ENG 2/AGENT 2 pushbutton switch comes on.
 - (1) If the DISCH legend does not come on:
 - (a) Replace the lamp of the DISCH legend of the ENG 2/AGENT 2 pushbutton switch.
 - If the fault continues: replace the ENG 2/AGENT 2 pushbutton switch.

EFF: ALL 26-21-00

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- (b) Or replace the ENG 2/AGENT 2 pushbutton switch that has LEDs (Ref. ESPM 20-45-11).
- (2) If the DISCH legend comes on:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- B. Do the test given in Para. 3.

5. Close-up

- A. Put the aircraft back to its initial configuration.
 - (1) On the panel 25VU, set the ANN LT switch to BRT.

EFF: ALL

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TASK 26-21-00-810-815

The DISCH Legend of the ENG 1/AGENT 1 Pushbutton Switch Stays on

1. Possible Causes

- BOTTLE 1-FIRE EXTING, ENG 1 (6WE1)
- ENG/APU FIRE PNL (1WD)
- ground signal at the pin A/3 of the engine 1 fire extinguishing bottle 1
- wiring of the HP discrete signal from the engine 1 fire extinguishing bottle 1 to the ENG/APU FIRE panel (1WD)

2. Job Set-up Information

A. Referenced Information

RENCE	DESIGNATION
26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)
26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)
26-21-41-000-001	Removal of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)
26-21-41-400-001	<pre>Installation of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)</pre>
26-21/01	
	26-21-41-000-001 26-21-41-400-001

3. Fault Confirmation

A. Test

Not applicable, the fault is evident.

4. Fault Isolation

- A. If the DISCH legend of the ENG 1/AGENT 1 pushbutton switch does not go off:
 - disconnect the electrical connector 6WE1-A from the engine 1 fire extinguishing bottle 1
 - do a check for continuity between the pins A/2 and A/3 of the engine 1 fire extinguishing bottle 1.
 - (1) If there is no continuity:
 - replace the BOTTLE 1-FIRE EXTING, ENG 1 (6WE1) (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001).
 - (2) If there is continuity:
 - connect the electrical connector 6WE1-A on the engine 1 fire extinguishing bottle 1
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).

EFF: ALL

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- (a) If the fault continues:
 - do a check for a ground signal at the pin A/3 of the engine 1 fire extinguishing bottle 1 (Ref. ASM 26-21/01).
 - 1 If there is no ground signal: - repair the above wiring.
 - 2 If there is a ground signal:
 - do a check and repair the wiring of the HP discrete signal from the engine 1 fire extinguishing bottle 1 to the ENG/APU FIRE panel (1WD), from pin A/2 to pin A/K (Ref. ASM 26-21/01).

EFF: ALL
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TASK 26-21-00-810-816

The DISCH Legend of the ENG 1/AGENT 2 Pushbutton Switch Stays on

1. Possible Causes

- BOTTLE 2-FIRE EXTING, ENG 1 (8WE1)
- ENG/APU FIRE PNL (1WD)
- ground signal at the pin A/3 of the engine 1 fire extinguishing bottle 2
- wiring of the HP discrete signal from the engine 1 fire extinguishing bottle 2 to the ENG/APU FIRE panel

2. Job Set-up Information

A. Referenced Information

RENCE	DESIGNATION
26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)
26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)
26-21-41-000-001	Removal of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)
26-21-41-400-001	<pre>Installation of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)</pre>
26-21/01	
	26-21-41-000-001 26-21-41-400-001

3. Fault Confirmation

A. Test

Not applicable, the fault is evident.

4. Fault Isolation

- A. If the DISCH legend of the ENG 1/AGENT 2 pushbutton switch does not go off:
 - disconnect the electrical connector 8WE1-A from the engine 1 fire extinguishing bottle 2
 - do a check for continuity between the pins A/2 and A/3 of the engine 1 fire extinguishing bottle 2.
 - (1) If there is no continuity:
 - replace the BOTTLE 2-FIRE EXTING, ENG 1 (8WE1) (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001).
 - (2) If there is continuity:
 - connect the electrical connector 8WE1-A on the engine 1 fire extinguishing bottle 2
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).

EFF: ALL

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- (a) If the fault continues:
 - do a check for a ground signal at the pin A/3 of the engine 1 fire extinguishing bottle 2 (Ref. ASM 26-21/01).
 - 1 If there is no ground signal: - repair the above wiring.
 - 2 If there is a ground signal:
 - do a check and repair the wiring of the HP discrete signal from the engine 1 fire extinguishing bottle 2 to the ENG/APU FIRE panel, from pin A/2 to pin B/K (Ref. ASM 26-21/01).

EFF: ALL
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TASK 26-21-00-810-817

The DISCH Legend of the ENG 2/AGENT 1 Pushbutton Switch Stays on

1. Possible Causes

- BOTTLE 1-FIRE EXTING, ENG 2 (6WE2)
- ENG/APU FIRE PNL (1WD)
- ground signal at the pin A/3 of the engine 2 fire extinguishing bottle 1
- wiring of the HP discrete signal from the engine 2 fire extinguishing bottle 1 to the ENG/APU FIRE panel

2. Job Set-up Information

A. Referenced Information

RENCE	DESIGNATION
26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)
26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)
26-21-41-000-001	Removal of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)
26-21-41-400-001	<pre>Installation of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)</pre>
26-21/01	
	26-21-41-000-001 26-21-41-400-001

3. Fault Confirmation

A. Test

Not applicable, the fault is evident.

4. Fault Isolation

- A. If the DISCH legend of the ENG 2/AGENT 1 pushbutton switch does not go off:
 - disconnect the electrical connector 6WE2-A from the engine 2 fire extinguishing bottle 1
 - do a check for continuity between the pins A/2 and A/3 of the engine 2 fire extinguishing bottle 2.
 - (1) If there is no continuity:
 - replace the BOTTLE 1-FIRE EXTING, ENG 2 (6WE2) (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001).
 - (2) If there is continuity:
 - connect the electrical connector 6WE2-A on the engine 2 fire extinguishing bottle 1
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).

EFF: ALL

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- (a) If the fault continues:
 - do a check for a ground signal at the pin A/3 of the engine 2 fire extinguishing bottle 1 (Ref. ASM 26-21/01).
 - 1 If there is no ground signal: - repair the above wiring.
 - 2 If there is a ground signal:
 - do a check and repair the wiring of the HP discrete signal from the engine 2 fire extinguishing bottle 1 to the ENG/APU FIRE panel, from pin A/2 to pin D/K (Ref. ASM 26-21/01).

EFF: ALL
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TASK 26-21-00-810-818

The DISCH Legend of the ENG 2/AGENT 2 Pushbutton Switch Stays on

1. Possible Causes

- BOTTLE 2-FIRE EXTING, ENG 2 (8WE2)
- ENG/APU FIRE PNL (1WD)
- ground signal at the pin A/3 of the engine 2 fire extinguishing bottle 2
- wiring of the HP discrete signal from the engine 2 fire extinguishing bottle 2 to the ENG/APU FIRE panel

2. Job Set-up Information

A. Referenced Information

RENCE	DESIGNATION
26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)
26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)
26-21-41-000-001	Removal of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)
26-21-41-400-001	<pre>Installation of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)</pre>
26-21/01	
	26-21-41-000-001 26-21-41-400-001

3. Fault Confirmation

A. Test

Not applicable, the fault is evident.

4. Fault Isolation

- A. If the DISCH legend of the ENG 2/AGENT 2 pushbutton switch does not go off:
 - disconnect the electrical connector 8WE2-A from the engine 2 fire extinguishing bottle 2
 - do a check for continuity between the pins A/2 and A/3 of the engine 2 fire extinguishing bottle 2.
 - (1) If there is no continuity:
 - replace the BOTTLE 2-FIRE EXTING, ENG 2 (8WE2) (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001).
 - (2) If there is continuity:
 - connect the electrical connector 8WE2-A on the engine 2 fire extinguishing bottle 2
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).

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- (a) If the fault continues:
 - do a check for a ground signal at the pin A/3 of the engine 2 fire extinguishing bottle 2 (Ref. ASM 26-21/01).
 - 1 If there is no ground signal: - repair the above wiring.
 - 2 If there is a ground signal:
 - do a check and repair the wiring of the HP discrete signal from the engine 2 fire extinguishing bottle 2 to the ENG/APU FIRE panel, from pin A/2 to pin C/K (Ref. ASM 26-21/01).

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TASK 26-21-00-810-819

Possible Engine 1 Fire or Detection System Failure

- 1. Possible Causes
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE	DESIGNATION
	26-2	1-00-810-801	The SQUIB Legend of the ENG 1/AGENT 1 Pushbutton Switch does not Come on
	26-21-00-810-802		The SQUIB Legend of the ENG 1/AGENT 2 Pushbutton Switch does not Come on
	75-41-00-810-805		High Nacelle Temperature Indication on Engine 1
R	AMM	26-12-00-710-001	Operational Check of Loop/Squib
	AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
	AMM	26-21-41-000-001	Removal of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)
	AMM	26-21-41-400-001	<pre>Installation of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)</pre>

3. Fault Confirmation

A. Do an inspection of the engine for signs of fire damage.

4. Fault Isolation

- A. If you find signs of fire damage:
 - (1) Put the engine back to its initial condition.
 - (2) Replace the engine fire-extinguisher bottles (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001).
 - (3) Do the test given in Para. 4.C.
- B. If you do not find signs of fire damage:
 - make sure that there is no nacelle overheat (Ref. TASK 75-41-00-810-805).
 - (1) If there was a nacelle overheat:
 - repair and put the engine back to its initial condition
 - replace the engine fire-extinguisher bottles (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001)
 - do the test given in Para. 4.C.

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- (2) If there was not a nacelle overheat:
 - repair the fire protection system (Ref. TASK 26-21-00-810-801) and (Ref. TASK 26-21-00-810-802)
 - replace the engine fire-extinguisher bottles (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001)
 - do the test given in Para. 4.C.

C. Test

- do the operational test of the fire protection system (Ref. AMM TASK 26-12-00-710-001) and (Ref. AMM TASK 26-12-00-710-002).

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TASK 26-21-00-810-820

Possible Engine 2 Fire or Detection System Failure

- 1. Possible Causes
- 2. Job Set-up Information
 - A. Referenced Information

	REFE	RENCE	DESIGNATION
	26-2	1-00-810-803	The SQUIB Legend of the ENG 2/AGENT 1 Pushbutton Switch does not Come on
	26-2	1-00-810-804	The SQUIB Legend of the ENG 2/AGENT 2 Pushbutton Switch does not Come on
	75-4	1-00-810-806	High Nacelle Temperature Indication on Engine 2
R	AMM	26-12-00-710-001	Operational Check of Loop/Squib
	AMM	26-12-00-710-002	Operational Test of the Engine Fire and Overheat Detection with the Centralized Fault Display System (CFDS)
	AMM	26-21-41-000-001	Removal of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)
	AMM	26-21-41-400-001	<pre>Installation of the Engine Fire-Extinguisher Bottle (6WE1,8WE1,6WE2,8WE2)</pre>

3. Fault Confirmation

A. Do an inspection of the engine for signs of fire damage.

4. Fault Isolation

- A. If you find signs of fire damage:
 - (1) Put the engine back to its initial condition.
 - (2) Replace the engine fire-extinguisher bottles (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001).
 - (3) Do the test given in Para. 4.C.
- B. If you do not find signs of fire damage:
 - make sure that there is no nacelle overheat (Ref. TASK 75-41-00-810-806).
 - (1) If there was a nacelle overheat:
 - repair and put the engine back to its initial condition
 - replace the engine fire-extinguisher bottles (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001)
 - do the test given in Para. 4.C.

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- (2) If there was not a nacelle overheat:
 - repair the fire protection system (Ref. TASK 26-21-00-810-803) and (Ref. TASK 26-21-00-810-804)
 - replace the engine fire-extinguisher bottles (Ref. AMM TASK 26-21-41-000-001) and (Ref. AMM TASK 26-21-41-400-001)
 - do the test given in Para. 4.C.

C. Test

- do the operational test of the fire protection system (Ref. AMM TASK 26-12-00-710-001) and (Ref. AMM TASK 26-12-00-710-002).

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APU FIRE EXTINGUISHING - FAULT ISOLATION PROCEDURES

TASK 26-22-00-810-801

APU FIRE Signal Channel A and/or Channel B Fault

- 1. Possible Causes
 - DETECTOR-APU FIRE (LOOP A) (21WG)
 - DETECTOR-APU FIRE (LOOP B) (22WG)
 - FDU-APU (13WG)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-13-15-000-001	Removal of the Sensing Elements 21WG and 22WG	
AMM	26-13-15-400-001	Installation of the Sensing Elements 21WG and 22WG	
AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)	
AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>	
AMM	26-22-00-710-001	Operational Test of the APU Fire-Extinguishing Loop/Squib	
AMM	31-50-00-710-001	Ground Scanning of the Central Warning System	
ASM	26-13/01		

- 3. Fault Confirmation
 - A. The APU FIRE EXTINGUISHING PANEL 20VU (p/n 330TS08Y) has a fault. Special operation is necessary. Incorrect operation causes the APU fire extinguisher bottle to discharge. Airbus supplies a new 20VU panel that corrects this fault. See TFU 26.22.00.007 for more data.
 - (1) Maintenance recommendation:
 - (a) Before the test:
 - Pull the CIRCUIT BREAKER 30WF on panel 120VU.
 - (b) During the test:
 - Push the APU FIRE TEST BUTTON quickly and fully.
 - Hold it fully during the test.
 - Release it quickly.
 - (c) After the test:
 - Close the CIRCUIT BREAKER 30WF on panel 120VU.

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(2) Do the operational test of the APU fire-extinguishing system (Ref. AMM TASK 26-22-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.

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- B. If the test gives the maintenance message APU FIRE and the both red light rows in the APU FIRE PUSH p/bsw (20VU) come on.
 - replace the DETECTOR-APU FIRE (LOOP A) (21WG) and/or DETECTOR-APU FIRE (LOOP B) (22WG) (Ref. AMM TASK 26-13-15-000-001) and (Ref. AMM TASK 26-13-15-400-001).
 - (1) If the fault continues:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (2) If the fault continues:
 - do the operational test of the central warning system (Ref. AMM TASK 31-50-00-710-001)
 - (a) If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.

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- (3) If the fault continues:
 - do a check and repair the wiring if necessary between the: FDU (13WG) connector A/K and DETECTOR (21WG) connector A/A, FDU (13WG) connector A/J and DETECTOR (21WG) connector A/E, FDU (13WG) connector B/K and DETECTOR (22WG) connector A/A, FDU (13WG) connector B/J and DETECTOR (22WG) connector A/E (Ref. ASM 26-13/01).
- (4) If the fault continues:
 - do a check and repair the wiring if necessary between the: FDU (13WG) connector A/E and FWC (1WW1) connector AA/5C, FDU (13WG) connector A/M and FWC (1WW1) connector AA/4E, FDU (13WG) connector B/L and FWC (1WW1) connector AD/4G, FDU (13WG) connector B/E and FWC (1WW1) connector AD/5E, FDU (13WG) connector B/N and GND, FDU (13WG) connector B/B and GND, FDU (13WG) connector A/B and GND (Ref. ASM 26-13/01).
- C. Do the test as given in the Para. 3.A.

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: ALL **SROS**

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TASK 26-22-00-810-802

APU FIRE PUSH Light Fault

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - FDU-APU (13WG)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

	REFERENCE		DESIGNATION	
	AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
	AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
	AMM	26-13-34-000-001	Removal of the APU Fire-Detection Unit (FDU) (13WG)	
	AMM	26-13-34-400-001	<pre>Installation of the APU Fire-Detection Unit (FDU) (13WG)</pre>	
	AMM	26-22-00-710-001	Operational Test of the APU Fire-Extinguishing Loop/Squib	
R	AMM	33-14-00-710-001	Operational Test of the Lights	
	ASM	26-13/01	·	
	ASM	26-22/02		

- 3. Fault Confirmation
 - A. The APU FIRE EXTINGUISHING PANEL 20VU (p/n 330TS08Y) has a fault. Special operation is necessary. Incorrect operation causes the APU fire extinguisher bottle to discharge. Airbus supplies a new 20VU panel that corrects this fault. See TFU 26.22.00.007 for more data.
 - (1) Maintenance recommendation:
 - (a) Before the test:
 - Pull the CIRCUIT BREAKER 30WF on panel 120VU.
 - (b) During the test:
 - Push the APU FIRE TEST BUTTON quickly and fully.
 - Hold it fully during the test.
 - Release it quickly.
 - (c) After the test:
 - Close the CIRCUIT BREAKER 30WF on panel 120VU.
 - (2) Do the operational test of the APU fire-extinguishing system (Ref. AMM TASK 26-22-00-710-001).

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4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- **B.** If during the test the upper red light row in the APU FIRE PUSH pushbutton switch does not comes on:
 - do the operational test of the annunciator light test system (Ref. AMM TASK 33-14-00-710-001).
 - (1) If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
 - (2) If the fault continues:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001)
 and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (b) If the fault continues:
 - do a check and repair the wiring if necessary between the: FDU (13WG) connector A/E and ANN (5LP) connector A/14, ANN (5LP) connector A/15 and CB (1WG), ANN (5LP) connector A/13 and PNL (1WD) connector E/B, (Ref. ASM 26-22/02) and (Ref. ASM 26-13/01)
- C. If during the test the lower red light row in the APU FIRE PUSH pushbutton switch does not comes on:
 - do the operational test of the annunciator light test system (Ref. AMM TASK 33-14-00-710-001).
 - (1) If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
 - (2) If the fault continues:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
 - (a) If the fault continues:
 - replace the FDU-APU (13WG) (Ref. AMM TASK 26-13-34-000-001) and (Ref. AMM TASK 26-13-34-400-001).
 - (b) If the fault continues:
 - do a check and repair the wiring if necessary between the: FDU (13WG) connector B/E and ANN (2LP) connector A/38, ANN (2LP) connector A/39 and CB (1WG), ANN (2LP) connector A/37 and PNL (1WD) connector F/B, (Ref. ASM 26-22/02) and (Ref. ASM 26-13/01)

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D. Do the test as given in the Para. 3.A.

5. Close-up

A. Put the aircraft back to its initial configuration.

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TROUBLE SHOOTING MANUAL

TASK 26-22-00-810-803

APU SQUIB/DISCH Light Fault

- 1. Possible Causes
 - ENG/APU FIRE PNL (1WD)
 - BOTTLE-APU FIRE EXTING (11WF)
 - CARTRIDGE-APU FIRE EXTING BOTTLE (12WF)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-12-12-000-001	Removal of the ENG/APU Fire Panel (1WD)	
AMM	26-12-12-400-001	Installation of the ENG/APU Fire Panel (1WD)	
AMM	26-22-00-710-001	Operational Test of the APU Fire-Extinguishing Loop/Squib	
AMM	26-22-41-000-001	Removal of the Fire Extinguisher Bottle (11WF)	
AMM	26-22-41-400-001	Installation of the Fire Extinguisher Bottle (11WF)	
AMM	26-22-42-000-001	Removal of the Fire-Extinguisher Bottle Cartridge (12WF)	
AMM	26-22-42-400-001	<pre>Installation of the Fire Extinguisher Bottle Cartridge (12WF)</pre>	
AMM ASM	33-14-00-710-001 26-22/01	Operational Test of the Lights	

3. Fault Confirmation

R

- A. The APU FIRE EXTINGUISHING PANEL 20VU (p/n 330TS08Y) has a fault. Special operation is necessary. Incorrect operation causes the APU fire extinguisher bottle to discharge. Airbus supplies a new 20VU panel that corrects this fault. See TFU 26.22.00.007 for more data.
 - (1) Maintenance recommendation:
 - (a) Before the test:
 - Pull the CIRCUIT BREAKER 30WF on panel 120VU.
 - (b) During the test:
 - Push the APU FIRE TEST BUTTON quickly and fully.
 - Hold it fully during the test.
 - Release it quickly.
 - (c) After the test:
 - Close the CIRCUIT BREAKER 30WF on panel 120VU.

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(2) Do the operational test of the APU fire-extinguishing system (Ref. AMM TASK 26-22-00-710-001).

4. Fault Isolation

- R A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.

R R

B. If the DISCH legend in the AGENT p/bsw does not come on during the test:

 do the operational test of the annunciator light test system (Ref. AMM TASK 33-14-00-710-001).

R R R

- (1) If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.

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- (2) If the fault continues:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- (3) If the fault continues:
 - replace the BOTTLE-APU FIRE EXTING (11WF) (Ref. AMM TASK 26-22-41-000-001) and (Ref. AMM TASK 26-22-41-400-001).
- (4) If the fault continues:
 - do a check and repair the wiring if necessary between the:
 PANEL (1WD) connector E/K and BOTTLE (11WF) connector A/C,
 BOTTLE (11WF) connector A/B and GND (Ref. ASM 26-22/01).

C. If the SQUIB legend in the AGENT p/bsw does not come on during the test: - do the operational test of the annunciator-light test system (Ref. AMM TASK 33-14-00-710-001).

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R R

- (1) If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- (2) If the fault continues:
 - replace the ENG/APU FIRE PNL (1WD) (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- (3) If the fault continues:
 - replace the CARTRIDGE-APU FIRE EXTING BOTTLE (12WF) (Ref. AMM TASK 26-22-42-000-001) and (Ref. AMM TASK 26-22-42-400-001).

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- (4) If the fault continues:
 - do a check and repair the wiring between the: CARTRIDGE (12WF) connector A/A and PANEL (1WD) connector E/G, CARTRIDGE (12WF) connector A/B and PANEL (1WD) connector F/J, CARTRIDGE (12WF) connector A and GND (Ref. ASM 26-22/01).
- D. Do the test as given in the Para. 3.A.

5. Close-up

A. Put the aircraft back to its initial configuration.

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TASK 26-22-00-810-804

APU AUTO EXTING TEST Light Fault

- 1. Possible Causes
 - RELAY-FLIGHT/GROUND (43WF)
 - RELAY-AUTO PUSH (34WF)
 - PUSHBUTTON SWITCH-TEST (31WF)
- R RELAY- AUTO DISCH (35WF)
- R EXTING GROUND TEST RELAY (36WF)
- R EXTING GROUND TEST TIME DELAY RELAY (37WF)
- R EXTING GROUND TEST RELAY (38WF)
 - RELAY-AUTO TIME DELAY PUSH (39WF)
 - wiring

REFERENCE

- PUSHBUTTON SWITCH-RESET (32WF)
- RELAY-TEST (33WF)
- 2. Job Set-up Information
 - A. Referenced Information

R			
	AMM	32-69-00-740-001	BITE Check Landing Gear Control Interface Unit (LGCIU) using MCDU to Ensure that Continuous BITE is Operative
R	ASM	33-14-00-710-001 26-22/02 26-22/02	Operational Test of the Lights

- 3. Fault Confirmation
- R A. Do the operational test of the APU auto-extinguishing system

DESIGNATION

- R (1) In the APU/AUTO EXTING section of panel 50VU:
- R (a) Push the TEST (31WF) pushbutton switch for 3 seconds approximately.
- R (2) In the APU/AUTO EXTING section of panel 50VU:
- R (a) Push the RESET (32WF) pushbutton switch.

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4. Fault Isolation

R

- R A. If the OK legend in the APU/AUTO/EXTING TEST p/bsw does not come on during the test:
 - do the operational test of the annunciator light test system (Ref. AMM TASK 33-14-00-710-001).

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- (1) If the fault continues:
 - do the BITE test of the landing gear (Ref. AMM TASK 32-69-00-740-001).

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- (2) If the fault continues:
 - do a check of the RELAY-FLIGHT/GROUND (43WF) and replace it if necessary (Ref. ASM 26-22/02).
- R (3) If the fault continues:
 - do a check of the RELAY-AUTO PUSH (34WF) and replace it if necessary (Ref. ASM 26-22/02).
- R (4) If the fault continues:
 - do a check of the PUSHBUTTON SWITCH-TEST (31WF) and replace it if necessary (Ref. ASM 26-22/02).
- R (5) If the fault continues:
 - do a check of the RELAY- AUTO DISCH (35WF) and replace it if necessary (Ref. ASM 26-22/02).
- R (6) If the fault continues:
 - do a check of the EXTING GROUND TEST RELAY (36WF) and replace it if necessary (Ref. ASM 26-22/02).
 - (7) If the fault continues:
 - do a check of the EXTING GROUND TEST TIME DELAY RELAY (37WF) and replace it if necessary (Ref. ASM 26-22/02).
 - (8) If the fault continues:
 - do a check of the EXTING GROUND TEST RELAY (38WF) and replace it if necessary (Ref. ASM 26-22/02).
 - (9) If the fault continues:
 - do a check of the RELAY-AUTO TIME DELAY PUSH (39WF) and replace it if necessary (Ref. ASM 26-22/02).
- R (10) If the fault continues:
 - do a check and repair the wiring if necessary between the:
 LGCIU (5GA1) connector AA/15B and RELAY (43WF) connector A/X1,
 RELAY (43WF) connector A/A2 and RELAY (34WF) connector A/X1,
 RELAY (34WF) connector A/X1 an RELAY (39WF) connector A/A2 and A/X1,

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RELAY (34WF) connector A/A1 an RELAY (35WF) connector A/A1, RELAY (34WF) connector A/A2 an RELAY (1LP) connector A/24, RELAY (1LP) connector A/22 and P/BSW TEST (31WF) connector A/4 RELAY (43WF) connector A/X2 and GND, PBSW TEST (31WF) connector A/A3 and C/B (30WF) (Ref. ASM 26-22/02) and (Ref. ASM 26-22/02).

- R B. If the ON legend in the APU/AUTO/EXTING TEST p/bsw does not come on during the test:
 - do the operational test of the annunciator light test system (Ref. AMM TASK 33-14-00-710-001).

R

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- (1) If the fault continues:
 - do a check of the PUSHBUTTON SWITCH-TEST (31WF) and replace it if necessary (Ref. ASM 26-22/02).
- R (2) If the fault continues:
 - do a check of the PUSHBUTTON SWITCH-RESET (32WF) and replace it if necessary (Ref. ASM 26-22/02).
- R (3) If the fault continues:
 - do a check of the RELAY-TEST (33WF) and replace it if necessary (Ref. ASM 26-22/02).
- (4) If the fault continues: R
 - do a check and repair the wiring if necessary between the: PBSW TEST (31WF) connector A/7 and RELAY (33WF) connector A/C2, PBSW TEST (31WF) connector A/A1 and RELAY (33WF) connector A/X1 and A/A1,

RELAY (33WF) connector A/C1 and GND, RELAY (33WF) connector A/X2 and GND,

R

RELAY (33WF) connector A/A2 and C/B (30WF) (Ref. ASM 26-22/02).

C. Do the test as given in the Para. 3.A. R

5. Close-up

SROS

A. Put the aircraft back to its initial configuration.

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TASK 26-22-00-810-805

LGCIU Signal Mismatch

- 1. Possible Causes
 - RELAY-FLIGHT/GROUND (43WF)
 - RELAY-AUTO TIME DELAY PUSH (39WF)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-22-00-710-001	Operational Test of the APU Fire-Extinguishing Loop/Squib
AMM	32-69-00-740-001	BITE Check Landing Gear Control Interface Unit (LGCIU) using MCDU to Ensure that Continuous BITE is Operative
ASM	26-22/02	
ASM	26-22/02	

- 3. Fault Confirmation
 - A. The APU FIRE EXTINGUISHING PANEL 20VU (p/n 330TS08Y) has a fault. Special operation is necessary. Incorrect operation causes the APU fire extinguisher bottle to discharge. Airbus supplies a new 20VU panel that corrects this fault. See TFU 26.22.00.007 for more data.
 - (1) Maintenance recommendation:
 - (a) Before the test:
 - Pull the CIRCUIT BREAKER 30WF on panel 120VU.
 - (b) During the test:
 - Push the APU FIRE TEST BUTTON quickly and fully.
 - Hold it fully during the test.
 - Release it quickly.
 - (c) After the test:
 - Close the CIRCUIT BREAKER 30WF on panel 120VU.
 - (2) Do the operational test of the APU fire-extinguishing system (Ref. AMM TASK 26-22-00-710-001).

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4. Fault Isolation

- R A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.

R R

- B. If the test gives the maintenance message APU FIRE:
 - do a check of the RELAY-FLIGHT/GROUND (43WF) and replace it if necessary (Ref. ASM 26-22/02).
 - (1) If the fault continues:

do a check of the RELAY-AUTO TIME DELAY PUSH (39WF) and replace it if necessary (Ref. ASM 26-22/02).

- (2) If the fault continues:
 - do the BITE test of the landing gear (Ref. AMM TASK 32-69-00-740-001).

R

- .
- R R
- (a) If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- (3) If the fault continues:
 - do a check and repair the wiring if necessary between: RELAY (43WF) connector A/X1 and LGCIU 1 (5GA1) connector AA/5B, RELAY (43WF) connector A/A2 and RELAY (39WF) connector A/A2, RELAY (39WF) connector A/A1 and BODY-LIGHT (40WF), RELAY (43WF) connector A/A1 and CB (30WF), RELAY (43WF) connector A/X2 and GND (Ref. ASM 26-22/02).
- C. Do the test as given in the Para. 3.A.

5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: ALL

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TASK 26-22-00-810-806

APU DISCH light is illuminated

- 1. Possible Causes
 - discharged Fire Extiguishing Bottle (11WF)
 - wiring
 - ENG/APU FIRE PANEL (1WD)
 - SYS1/ESS TEST RELAY (46LP)
- Job Set-up Information
 - A. Fixtures, Tools, Test and Support Equipment

REFERENCE QTY DESIGNATION

No specific

1 ALLEN KEY 3/32 IN

B. Referenced Information

REFERENCE **DESIGNATION** AMM 26-12-12-000-001 Removal of the ENG/APU Fire Panel (1WD) AMM 26-12-12-400-001 Installation of the ENG/APU Fire Panel (1WD) AMM 26-22-00-710-001 Operational Test of the APU Fire-Extinguishing Loop/Squib 26-22-41-000-001 AMM Removal of the Fire Extinguisher Bottle (11WF) 26-22-41-400-001 Installation of the Fire Extinguisher Bottle (11WF) AMM ASM 26-22/01 ASM 33-14/17

- 3. Fault Confirmation
 - A. The APU FIRE EXTINGUISHING PANEL 20VU (p/n 330TS08Y) has a fault. Special operation is necessary. Incorrect operation causes the APU fire extinguisher bottle to discharge. Airbus supplies a new 20VU panel that corrects this fault. See TFU 26.22.00.007 for more data.
 - (1) Maintenance recommendation:
 - (a) Before the test:
 - Pull the CIRCUIT BREAKER 30WF on panel 120VU.

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- R (b) During the test:
 R Push the APU FIRE TEST BUTTON quickly and fully.
 R Hold it fully during the test.
 R Release it quickly.
- R (c) After the test:
 R Close the CIRCUIT BREAKER 30WF on panel 120VU.
- R (2) Do the operational test of the APU fire-extinguishing system (Ref. R AMM TASK 26-22-00-710-001).

4. Fault Isolation

- A. On the FIRE PANEL 20VU:
 - if the DISCH legend in the AGENT pushbutton switch stays on (is on):
 - do a check if the red disk of the discharge indicator (4035WM) is visible.
 - (1) If the red disk is ruptured:
 - replace the discharged Fire Extiguishing Bottle (11WF)
 (Ref. AMM TASK 26-22-41-000-001) and (Ref. AMM TASK 26-22-41-400-001).
 - (2) If the red disk is visible:
 - get access to the APU compartment and do a check for signs of extiguisher agent.
 - (a) If there are signs of extinguisher agent in the APU compartment:replace the discharged Fire Extiguishing Bottle (11WF)
 - (Ref. AMM TASK 26-22-41-000-001) and (Ref. AMM TASK 26-22-41-400-001).
 - (b) If there are no signs of extinguisher agent in the APU compartment:
 - get access to the fire-extinguishing bottle,
 - put an ALLEN KEY 3/32 IN into the pressure switch hexagon test-socket of the fire-extinguishing bottle,
 - slowley turn the allen key clockwise or counterclockwise approx. 10 degrees,
 - release the allen key and the pressure effect puts the allen key back to its initial position.
 - 1 If the allen key stays in its clockwise or counterclockwise position:
 - replace the discharged Fire Extiguishing Bottle (11WF) (Ref. AMM TASK 26-22-41-000-001) and (Ref. AMM TASK 26-22-41-400-001).
 - $\underline{2}$ If the allen key turns back to its initial position:
 - do a check and/or repair of the wiring from FIRE EXTINGUISHING BOTTLE (11WF) 11WF-A/C to ENG/APU FIRE PANEL (1WD) 1WD-EE/K;

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FIRE EXTINGUISHING BOTTLE (11WF) 11WF-A/B to GND; (Ref. ASM 26-22/01).

- a If the wiring is OK:
 - replace the ENG/APU FIRE PANEL (1WD)
 (Ref. AMM TASK 26-12-12-000-001) and (Ref. AMM TASK 26-12-12-400-001).
- <u>b</u> If the fault continues:replace the SYS1/ESS TEST RELAY (46LP).
- c If the fault continues:
 - do a check and/or repair of the wiring from ENG/APU FIRE PANEL (1WD) 1WD-EE/L to SYS1/ESS TEST RELAY (46LP) 49LP-A/B1 (Ref. ASM 33-14/17).
- B. Do the test as given in the Para. 3.A.

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TASK 26-22-00-810-807

Fault of the Fire Emergency Stop-Relay 6WF

- 1. Possible Causes
 - FIRE EMERGENCY STOP RELAY (6WF)
 - ECB (59KD)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-22-00-710-002	Operational Test of APU Auto-Fire-Exting. Circuit and the APU LP Fuel-Valve operation using each indiv. motor in turn and Test APU Emerg. Shutdown Circuit	
AMM	49-61-34-000-001	Removal of the Electronic Control Box (ECB) (59KD) (GTCP 36-300)	
AMM	49-61-34-000-002	Removal of the Electronic Control Box (ECB) (59KD) (APS 3200)	
AMM	49-61-34-400-001	<pre>Installation of the Electronic Control Box (ECB) (59KD) (GTCP 36-300)</pre>	
AMM	49-61-34-400-002	<pre>Installation of the Electronic Control Box (ECB) (59KD) (APS 3200)</pre>	
AMM	49-62-00-710-001	Operational Test of Emergency Shutdown System (with APU SHUT OFF Switch 1KL) (GTCP 36-300)	
AMM	49-62-00-710-004	Operational Test of the Emergency Shutdown Circuit (using the APU Shut Off Switch 1KL) (APS 3200)	
ASM	49-61/01	-	

3. Fault Confirmation

- R **ON A/C 201-225, 227-227, 229-250, 252-299, 426-456, 476-499, 503-549, R 551-599, 701-749,
 - A. Do the test of the APU emergency shutdown system with the APU/AUTO EXTING/TEST pushbutton switch (Ref. AMM TASK 49-62-00-710-004).

**ON A/C 251-251, 457-475,

SROS

A. Do the test of the APU emergency shutdown system with the APU/AUTO EXTING/TEST pushbutton switch (Ref. AMM TASK 49-62-00-710-001).

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**ON A/C ALL

4. Fault Isolation

R **ON A/C 201-225, 227-227, 229-250, 252-253, 276-299, 426-450, 476-499, R 503-549, 551-599, 701-749,

A. If the test gives the maintenance message:

FIRE EMERG STOP RLY 6WF

- replace the FIRE EMERGENCY STOP RELAY (6WF)
- (1) If the fault continues:
 - replace the ECB (59KD) (Ref. AMM TASK 49-61-34-000-002) and (Ref. AMM TASK 49-61-34-400-002).
- (2) If the fault continues:
 - do a check and repair the wiring from the FIRE EMERGENCY STOP RELAY (6WF) A/X1 to the ground. (Ref. ASM 49-61/01).
 - do a check and repair the wiring from the ECB (59KD) AB/J14 to the FIRE EMERGENCY STOP RELAY (6WF) A/X2 (Ref. ASM 49-61/01).

**ON A/C 251-251, 457-475,

A. If the test gives the maintenance message:

FIRE EMERG STOP RLY 6WF

- replace the FIRE EMERGENCY STOP RELAY (6WF)
- (1) If the fault continues:
 - replace the ECB (59KD) (Ref. AMM TASK 49-61-34-000-001) and (Ref. AMM TASK 49-61-34-400-001).
- (2) If the fault continues:
 - do a check and repair the wiring from the FIRE EMERGENCY STOP RELAY (6WF) A/X1 to the ground. (Ref. ASM 49-61/01).
 - do a check and repair the wiring from the ECB (59KD) AB/J14 to the FIRE EMERGENCY STOP RELAY (6WF) A/X2 (Ref. ASM 49-61/01).

R **ON A/C 201-225, 227-227, 229-244, 247-250, 252-299, 426-456, 476-499, R 503-549, 551-599, 701-749,

R Post SB 49-1061 For A/C 201-225,227-227,229-244,247-250,252-253,276-299, 426-450,476-499,503-549,551-599,701-749,

A. If the test gives the maintenance message:

FIRE EMERG STOP RLY 6WF Fault Code: 133 or 134

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- replace the FIRE EMERGENCY STOP RELAY (6WF)
- (1) If the fault continues:
 - replace the ECB (59KD) (Ref. AMM TASK 49-61-34-000-002) and (Ref. AMM TASK 49-61-34-400-002).
- (2) If the fault continues:
 - do a check and repair the wiring from the FIRE EMERGENCY STOP RELAY (6WF) A/X1 to the ground. (Ref. ASM 49-61/01).
 - do a check and repair the wiring from the ECB (59KD) AB/J14 to the FIRE EMERGENCY STOP RELAY (6WF) A/X2 (Ref. ASM 49-61/01).
- R **ON A/C 201-225, 227-227, 229-250, 252-299, 426-456, 476-499, 503-549, R 551-599, 701-749,
 - B. The APU FIRE EXTINGUISHING PANEL 20VU (p/n 330TS08Y) has a fault. Special operation is necessary. Incorrect operation causes the APU fire extinguisher bottle to discharge. Airbus supplies a new 20VU panel that corrects this fault. See TFU 26.22.00.007 for more data.
 - (1) Maintenance recommendation:
 - (a) Before the test:
 - Pull the CIRCUIT BREAKER 30WF on panel 120VU.
 - (b) During the test:
 - Push the APU FIRE TEST BUTTON quickly and fully.
 - Hold it fully during the test.
 - Release it quickly.
 - (c) After the test:
 - Close the CIRCUIT BREAKER 30WF on panel 120VU.
 - (2) Do the operational test of the FIRE EMERGENCY STOP RELAY (6WF) (Ref. AMM TASK 26-22-00-710-002).
 - NOTE: After the subsequent flight, make sure that the fault does not continue.

**ON A/C 251-251, 457-475,

- B. The APU FIRE EXTINGUISHING PANEL 20VU (p/n 330TS08Y) has a fault. Special operation is necessary. Incorrect operation causes the APU fire extinguisher bottle to discharge. Airbus supplies a new 20VU panel that corrects this fault. See TFU 26.22.00.007 for more data.
 - (1) Maintenance recommendation:
 - (a) Before the test:
 - Pull the CIRCUIT BREAKER 30WF on panel 120VU.

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- (b) During the test:
 - Push the APU FIRE TEST BUTTON quickly and fully.
 - Hold it fully during the test.
 - Release it quickly.
- (c) After the test:
 - Close the CIRCUIT BREAKER 30WF on panel 120VU.
- (2) Do the operational test of the FIRE EMERGENCY STOP RELAY (6WF) (Ref. AMM TASK 26-22-00-710-002).

NOTE : Make an entry in the applicable logbook that you must read the APU CLASS 3 FAULTS after the first flight on the subsequent day.

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R

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EFF:

251-251, 457-475,

TROUBLE SHOOTING MANUAL

APU FIRE EXTINGUISHING - TASK SUPPORTING DATA

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TO BE ISSUED LATER

APU Fire Extiguishing Figure 301

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CARGO COMPARTMENT FIRE EXTINGUISHING - FAULT ISOLATION PROCEDURES

R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,

TASK 26-23-00-810-801

LDCC BTL 1 AFT SQUIB Fault

- 1. Possible Causes
 - BOTTLE-FIRE EXTING (4005WX)
 - SDCU (10WQ)
 - P/BSW DISCH 4WX
 - wiring
 - SWITCH-TOGGLE, AGENT DISCHARGE (6WX)
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)
AMM	26-17-34-400-001	Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)
AMM	26-23-00-710-001	Operational Test of the Cargo-Compartment Fire-Extinguishing System
AMM	26-23-41-000-005	Removal of the Cartridge of the Cargo Fire-Extinguisher Bottle
AMM	26-23-41-400-005	Installation of the Cartridge of the Cargo Fire-Extinguisher Bottle
ASM	26-23/01	

3. Fault Confirmation

SROS

A. Do the operational test of the cargo-compartment fire-extinguishing system (Ref. AMM TASK 26-23-00-710-001).

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4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- R **ON A/C 201-225, 227-227, 229-244, 247-299, 426-455, 476-499, 503-549, R 551-599, 701-749,
 - B. If the test gives the maintenance message CRG FIRE BTL 1 AFT SQUIB: replace the BOTTLE-FIRE EXTING (4005WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (1) If the fault continues:
 - do check of the P/BSW DISCH 4WX and replace it if necessary (Ref. ASM 26-23/01).
 - (2) If the fault continues:
 - replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
 - (3) If the fault continues:
 - do a check and repair the wiring between the:
 BOTTLE 1 (4005WX) connector A/B and SDCU (10WQ) connector AA/12A.
 BOTTLE 1 (4005WX) connector A/A and GND (Ref. ASM 26-23/01).

**ON A/C 245-245,

- B. If the test gives the maintenance message CRG FIRE BTL 1 AFT SQUIB: replace the BOTTLE-FIRE EXTING (4005WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (1) If the fault continues:
 - do a check of the SWITCH-TOGGLE, AGENT DISCHARGE (6WX) and replace it if necessary (Ref. ASM 26-23/01).
 - (2) If the fault continues:
 - replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
 - (3) If the fault continues:
 - do a check and repair the wiring between the:
 BOTTLE 1 (4005WX) connector A/B and TOGGLE SW (6WX) pin 1B,
 TOGGLE SW (6WX) pin 2B and SDCU (10WQ) connector AA/12A,
 BOTTLE 1 (4005WX) connector A/A and GND (Ref. ASM 26-23/01).
- R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,
 - C. Do the test given in para. 3.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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R **ON A/C 245-245,

TASK 26-23-00-810-802

LDCC BTL 2 AFT SQUIB Fault

- 1. Possible Causes
 - BOTTLE-FIRE EXTIR (4010WX)
 - SDCU (10WQ)
 - RELAY-PRI AFT CRG COMPT, BTL 1 (22WX)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		RENCE	DESIGNATION
		2/ 47 7/ 000 004	Paramal of the Cooks Detection Cooks I Hait (CDCII)
	AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)
	AMM	26-17-34-400-001	Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)
	AMM	26-23-00-710-001	Operational Test of the Cargo-Compartment Fire-Extinguishing System
	AMM	26-23-41-000-005	Removal of the Cartridge of the Cargo
	AMM	26-23-41-400-005	Fire-Extinguisher Bottle Installation of the Cartridge of the Cargo
	ASM	26-23/01	Fire-Extinguisher Bottle

- 3. Fault Confirmation
 - A. Do the operational test of the cargo-compartment fire-extinguishing system (Ref. AMM TASK 26-23-00-710-001).
- 4. Fault Isolation
 - A. If the test gives a different maintenance message: - Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message CRG FIRE BTL 2 AFT SQUIB: - replace the BOTTLE-FIRE EXTIR (4010WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (1) If the fault continues:
 - do a check of the RELAY-PRI AFT CRG COMPT, BTL 1 (22WX) and replace it if necessary (Ref. ASM 26-23/01).

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- (2) If the fault continues:
 - replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
- (3) If the fault continues:
 - do a check and repair the wiring between the: BOTTLE 2 (4010WX) connector A/B and RELAY (22WX) connector A/B, RELAY (22WX) connector A/3 and SDCU (10WQ) connector AA/12B, BOTTLE 2 (4010WX) connector A/A and GND (Ref. ASM 26-23/01).
- C. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

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EFF :

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R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,

TASK 26-23-00-810-803

LDCC BTL 1 Low Pressure

1. Possible Causes

- BOTTLE-FIRE EXTING (4005WX)
- SDCU (10WQ)
- PBSW CARGO SMOKE/TEST (13WH)
- wiring
- SWITCH-TEST (16WH)

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)
AMM	26-17-34-400-001	<pre>Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)</pre>
AMM	26-23-00-200-005	Restoration of the Fire Extinguishing System after Activation
AMM	26-23-00-710-001	Operational Test of the Cargo-Compartment Fire-Extinguishing System
AMM	26-23-41-000-005	Removal of the Cartridge of the Cargo Fire-Extinguisher Bottle
AMM	26-23-41-400-005	Installation of the Cartridge of the Cargo Fire-Extinguisher Bottle
ASM	26-23/01	_

3. Fault Confirmation

A. Do the operational test of the cargo-compartment fire-extinguish system (Ref. AMM TASK 26-23-00-710-001).

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- R **ON A/C 201-225, 227-227, 229-244, 247-299, 426-455, 476-499, 503-549, R 551-599, 701-749,
 - B. If the test gives the maintenance message CRG FIRE BTL 1 LO PR:
 - (1) Replace the BOTTLE-FIRE EXTING (4005WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (a) If the bottle released thru the diaphragm, do the restoration of the fire extinguishing system (Ref. AMM TASK 26-23-00-200-005).
 - (b) If the bottle did not release thru the diaphragm, replace the bottle only.
 - (2) If the fault continues:
 - Do a check of the PBSW CARGO SMOKE/TEST (13WH) and replace it if necessary (Ref. ASM 26-23/01).
 - (3) If the fault continues:
 - Replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
 - (4) If the fault continues:
 - (a) Do a check and repair the wiring between:
 - The BOTTLE 1 (4005WX) connector B/C and the SW (13WH) pin 1
 - The SW (13WH) pin 2 and the SDCU (10WQ) connector AA/13A
 - The BOTTLE 1 (4005WX) connector B/A and the GND (Ref. ASM 26-23/01).

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- B. If the test gives the maintenance message CRG FIRE BTL 1 LO PR:
 - (1) Replace the BOTTLE-FIRE EXTING (4005WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (a) If the bottle released thru the diaphragm, do the restoration of the fire extinguishing system (Ref. AMM TASK 26-23-00-200-005).
 - (b) If the bottle did not release thru the diaphragm, replace the bottle only.
 - (2) If the fault continues:
 - Do a check of the SWITCH-TEST (16WH) and replace it if necessary (Ref. ASM 26-23/01).

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- (3) If the fault continues:
 - Replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
- (4) If the fault continues:
 - (a) Do a check the wiring between:
 - The BOTTLE 1 (4005WX) connector B/C and the SW (16WH) pin A3
 - The SW (16WH) pin A2 and the SDCU (10WQ) connector AA/13A
 - The BOTTLE 1 (4005WX) connector B/A and the GND (Ref. ASM 26-23/01).
- R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,
 - C. Do the test given in para. 3.
 - 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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TROUBLE SHOOTING MANUAL

R **ON A/C 245-245,

TASK 26-23-00-810-804

LDCC BTL 2 FWD SQUIB Fault

- 1. Possible Causes
 - BOTTLE-FIRE EXTIR (4010WX)
 - SDCU (10WQ)
 - RELAY-PRI FWD CRG COMPT, BOTL 1 (23WX)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)
AMM	26-17-34-400-001	Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)
AMM	26-23-00-710-001	Operational Test of the Cargo-Compartment Fire-Extinguishing System
AMM	26-23-41-000-005	Removal of the Cartridge of the Cargo Fire-Extinguisher Bottle
AMM	26-23-41-400-005	Installation of the Cartridge of the Cargo Fire-Extinguisher Bottle
ASM	26-23/01	-

- 3. Fault Confirmation
 - A. Do the operational test of the cargo-compartment fire-extinguishing system (Ref. AMM TASK 26-23-00-710-001).
- 4. Fault Isolation
 - A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message CRG FIRE BTL 2 FWD SQUIB: - replace the BOTTLE-FIRE EXTIR (4010WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (1) If the fault continues:
 - do a check of the RELAY-PRI FWD CRG COMPT, BOTL 1 (23WX) and replace it if necessary (Ref. ASM 26-23/01).

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- (2) If the fault continues:
 - replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
- (3) If the fault continues:
 - do a check and repair the wiring between the: B00TLE 2 (4010WX) connector C/B and RELAY (23WX) connector A/B, RELAY (23WX) connector A/3 and SDCU (10WQ) connector AA/11B, B0TTLE 2 (4010WX) connector A/C and GDN (Ref. ASM 26-23/01).
- C. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

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TASK 26-23-00-810-805

LDCC BTL 2 Low Pressure

1. Possible Causes

- BOTTLE-FIRE EXTIR (4010WX)
- SDCU (10WQ)
- SWITCH-TEST (16WH)
- wiring

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)
AMM	26-17-34-400-001	<pre>Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)</pre>
AMM	26-23-00-200-005	Restoration of the Fire Extinguishing System after Activation
AMM	26-23-00-710-001	Operational Test of the Cargo-Compartment Fire-Extinguishing System
AMM	26-23-41-000-005	Removal of the Cartridge of the Cargo Fire-Extinguisher Bottle
AMM	26-23-41-400-005	Installation of the Cartridge of the Cargo Fire-Extinguisher Bottle
ASM	26-23/01	

3. Fault Confirmation

A. Do the operational test of the cargo-compartment fire-extinguishing system (Ref. AMM TASK 26-23-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message CRG FIRE BTL 2 LO PR:
 - (1) Replace the BOTTLE-FIRE EXTIR (4010WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (a) If the bottle released thru the diaphragm, do the restoration of the fire extinguishing system (Ref. AMM TASK 26-23-00-200-005).

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- (b) If the bottle did not release thru the diaphragm, replace the bottle only.
- (2) If the fault continues:
 - Do a check of the SWITCH-TEST (16WH) and replace it if necessary (Ref. ASM 26-23/01).
- (3) If the fault continues:
 - Replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
- (4) If the fault continues:
 - (a) Do a check and repair the wiring between:
 - The BOTTLE 2 (4010WX) connector B/B and the SW (16WH) pin B3
 - The SW (16WH) pin B2 and the SDCU (10WQ) connector AA/13B
 - The BOTTLE 2 (4010WX) connector B/A and the GND (Ref. ASM 26-23/01).
- C. Do the test given in para. 3.
- 5. Close-up
 - A. Put the aircraft back to its initial configuration.

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R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,

TASK 26-23-00-810-806

LDCC BTL 1 FWD SQUIB FAULT

1. Possible Causes

- BOTTLE-FIRE EXTING (4005WX)
- SDCU (10WQ)
- P/BSW DISH (3WX)
- wiring
- SWITCH-TOGGLE, AGENT DISCHARGE (5WX)

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION	
AMM	26-17-34-000-001	Removal of the Smoke-Detection Control Unit (SDCU) (10WQ)	
AMM	26-17-34-400-001	<pre>Installation of the Smoke-Detection Control Unit (SDCU) (10WQ)</pre>	
AMM	26-23-00-710-001	Operational Test of the Cargo-Compartment Fire-Extinguishing System	
AMM	26-23-41-000-005	Removal of the Cartridge of the Cargo Fire-Extinguisher Bottle	
AMM	26-23-41-400-005	Installation of the Cartridge of the Cargo Fire-Extinguisher Bottle	
ASM	26-23/01	-	

3. Fault Confirmation

A. Do the operational test of the cargo-compartment fire-extinguishing system (Ref. AMM TASK 26-23-00-710-001).

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- R **ON A/C 201-225, 227-227, 229-244, 247-299, 426-455, 476-499, 503-549, R 551-599, 701-749,
 - B. If the test gives the maintenance message CRG FIRE BTL 1 FWD SQUIB: replace the BOTTLE-FIRE EXTING (4005WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (1) If the fault continues:
 - do a check of the P/BSW DISH (3WX) and replace it if necessary (Ref. ASM 26-23/01).
 - (2) If the fault continues:
 - replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
 - (3) If the fault continues:
 - do a check and repair the wiring between the:
 BOTTLE 1 (4005WX) connector C/B and SDCU (10WQ) connector AA/11A,
 BOTTLE 1 (4005WX) connector C/C and GND (Ref. ASM 26-23/01).

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- B. If the test gives the maintenance message CRG FIRE BTL 1 FWD SQUIB: replace the BOTTLE-FIRE EXTING (4005WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (1) If the fault continues:
 - do a check of the SWITCH-TOGGLE, AGENT DISCHARGE (5WX) and replace it if necessary (Ref. ASM 26-23/01).
 - (2) If the fault continues:
 - replace the SDCU (10WQ) (Ref. AMM TASK 26-17-34-000-001) and (Ref. AMM TASK 26-17-34-400-001).
 - (3) If the fault continues:
 - do a check and repair the wiring between the:
 BOTTLE 1 (4005WX) connector C/B and TOGGLE SW (5WX) pin 1B,
 TOGGLE SW (5WX) pin 2B and SDCU (10WQ) connector AA/11A,
 BOTTLE 1 (4005WX) connector A/C and GND (Ref. ASM 26-23/01).
- R **ON A/C 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, R 701-749,
 - C. Do the test given in para. 3.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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5. Close-up

A. Put the aircraft back to its initial configuration.

EFF: 201-225, 227-227, 229-299, 426-455, 476-499, 503-549, 551-599, 701-749,

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**ON A/C 456-475,

TASK 26-23-00-810-807

Fire-Extinguisher Bottle 1 FWD-SQUIB Fault

1. Possible Causes

- CARTRIDGE FWD, BOTTLE 1 (4003WX)
- DIR-CIDS, 1 (101RH)
- DIR-CIDS, 2 (102RH)
- wiring
- P/B switch DISCH (3WX)

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	23-73-34-000-001	Removal of the CIDS Director (101RH,102RH)
AMM	23-73-34-400-001	Installation of the CIDS Director (101RH,102RH)
AMM	26-23-00-710-001	Operational Test of the Cargo-Compartment
		Fire-Extinguishing System
AMM	26-23-41-000-005	Removal of the Cartridge of the Cargo
		Fire-Extinguisher Bottle
AMM	26-23-41-400-005	Installation of the Cartridge of the Cargo
		Fire-Extinguisher Bottle
ASM	26-23/01	

3. Fault Confirmation

A. Do the operational test of the cargo-compartment fire-extinguishing system (Ref. AMM TASK 26-23-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message CRG FIRE BTL 1 FWD SQUIB:
 - replace the CARTRIDGE FWD, BOTTLE 1 (4003WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (1) If the fault continues:
 - replace the DIR-CIDS, 1 (101RH) (Ref. AMM TASK 23-73-34-000-001)
 and (Ref. AMM TASK 23-73-34-400-001).

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- (2) If the fault continues:
 - replace the DIR-CIDS, 2 (102RH) (Ref. AMM TASK 23-73-34-000-001)
 and (Ref. AMM TASK 23-73-34-400-001).
- (3) If the fault continues:
 - do a check and repair the wiring between the: BOTTLE 1 (4005WX) connector C/B and CIDS DIR 1 (101RH) connector AA/4B, BOTTLE 1 (4005WX) connector C/B and CIDS DIR 2 (102RH) connector AA/4B, BOTTLE 1 (4005WX) connector C/A and GND (Ref. ASM 26-23/01).
- (4) If the fault continues:
 - do a check of the P/B switch DISCH (3WX) and replace it if necessary (Ref. ASM 26-23/01).
- C. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

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TASK 26-23-00-810-808

Fire-Extighuisher Bottle 1 AFT-SQUIB Fault

1. Possible Causes

- CARTRIDGE FWD, BOTTLE 1 (4003WX)
- DIR-CIDS, 1 (101RH)
- DIR-CIDS, 2 (102RH)
- wiring
- P/B switch DISCH (3WX)

2. Job Set-up Information

A. Referenced Information

REFERENCE		DESIGNATION
AMM	23-73-34-000-001	Removal of the CIDS Director (101RH,102RH)
AMM	23-73-34-400-001	Installation of the CIDS Director (101RH,102RH)
AMM	26-23-00-710-001	Operational Test of the Cargo-Compartment
		Fire-Extinguishing System
AMM	26-23-41-000-005	Removal of the Cartridge of the Cargo
		Fire-Extinguisher Bottle
AMM	26-23-41-400-005	Installation of the Cartridge of the Cargo
		Fire-Extinguisher Bottle
ASM	26-23/01	

3. Fault Confirmation

A. Do the operational test of the cargo-compartment fire-extinguishing system (Ref. AMM TASK 26-23-00-710-001).

4. Fault Isolation

- A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
- B. If the test gives the maintenance message CRG FIRE BTL 1 FWD SQUIB:
 - replace the CARTRIDGE FWD, BOTTLE 1 (4003WX) (Ref. AMM TASK 26-23-41-000-005) and (Ref. AMM TASK 26-23-41-400-005).
 - (1) If the fault continues:
 - replace the DIR-CIDS, 1 (101RH) (Ref. AMM TASK 23-73-34-000-001)
 and (Ref. AMM TASK 23-73-34-400-001).
 - (2) If the fault continues:
 - replace the DIR-CIDS, 2 (102RH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001).

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- (3) If the fault continues:
 - do a check and repair the wiring between the:
 BOTTLE 1 (4005WX) connector A/B and CIDS DIR 1 (101RH) connector AA/4C,
 BOTTLE 1 (4005WX) connector A/B and CIDS DIR 2 (102RH) connector AA/4C,
 - BOTTLE 1 (4005WX) connector A/A and GND (Ref. ASM 26-23/01).
- (4) If the fault continues:
 - do a check of the P/B switch DISCH (3WX) and replace it if necessary (Ref. ASM 26-23/01).
- C. Do the test given in para. 3.

5. Close-up

A. Put the aircraft back to its initial configuration.

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TASK 26-23-00-810-809

Fire-Extinguisher Bottle 1 Low Pressure

- 1. Possible Causes
 - BOTTLE-FIRE EXTING (4005WX)
 - DIR-CIDS, 1 (101RH)
 - DIR-CIDS, 2 (102RH)
 - P/B switch CARGO SMOKE/TEST (13WH)
 - wiring
- 2. Job Set-up Information
 - A. Referenced Information

REFERENCE		DESIGNATION
AMM	23-73-34-000-001	Removal of the CIDS Director (101RH,102RH)
AMM	23-73-34-400-001	Installation of the CIDS Director (101RH,102RH)
AMM	26-23-41-000-004	Removal of the Cargo Fire-Extinguisher Bottle (4005WX)
AMM	26-23-41-400-004	<pre>Installation of the Cargo Fire-Extinguisher Bottle (4005WX)</pre>
ASM	26-23/01	

- 3. Fault Confirmation
 - A. Test.
 - (1) Open the circuit breakers 14WH, 15WH, 17WH and 18WH, wait for approx. 10 s and close again.
- 4. Fault Isolation
 - A. If the test gives a different maintenance message:
 - Do the trouble shooting procedure related to the maintenance message.
 - B. If the test gives the maintenance message CRG FIRE BTL 1 LO PR:
 - replace the BOTTLE-FIRE EXTING (4005WX) (Ref. AMM TASK 26-23-41-000-004) and (Ref. AMM TASK 26-23-41-400-004).
 - (1) If the fault continues:
 - do a check of the P/B switch CARGO SMOKE/TEST (13WH) and replace it if necessary (Ref. ASM 26-23/01).
 - (2) If the fault continues:
 - replace the DIR-CIDS, 1 (101RH) (Ref. AMM TASK 23-73-34-000-001) and (Ref. AMM TASK 23-73-34-400-001).

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- (3) If the fault continues: R - replace the DIR-CIDS, 2 (102RH) (Ref. AMM TASK 23-73-34-000-001) R and (Ref. AMM TASK 23-73-34-400-001). R (4) If the fault continues: R - do a check and repair the wiring between the: R BOTTLE 1 (4005WX) connector B/C and switch (13WH) pin 1, R switch (13WH) pin 2 and CIDS DIR 1 (101RH) connector AA/4F, switch (13WH) pin 2 and CIDS DIR 2 (102RH) connector AA/4F, R BOTTLE 1 (4005WX) connector B/A and GND (Ref. ASM 26-23/01). R R C. Do the test given in para. 3.
- R 5. Close-up
- R A. Put the aircraft back to its initial configuration.

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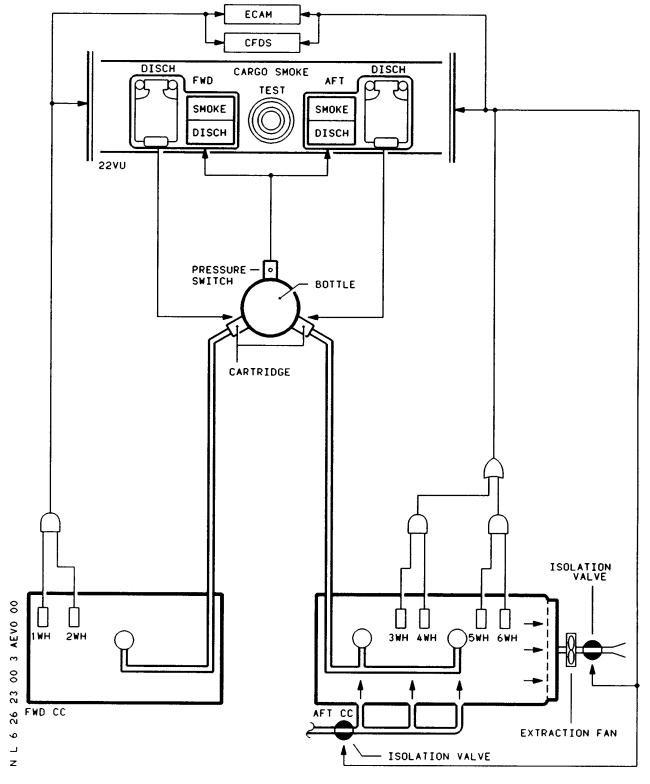
CARGO COMPARTMENT FIRE EXTINGUISHING - TASK SUPPORTING DATA

EFF: ALL

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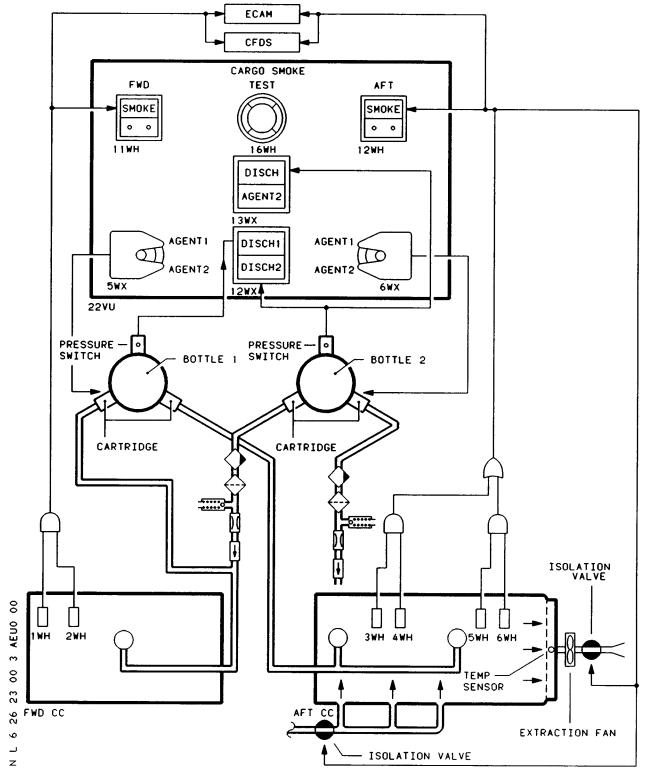
Cargo Compartment Fire Extinguishing - Block Diagram Figure 301

R EFF: 201-225, 227-227, 229-244, 247-250, 252-299, 426-499, 503-549, 551-599, SROS

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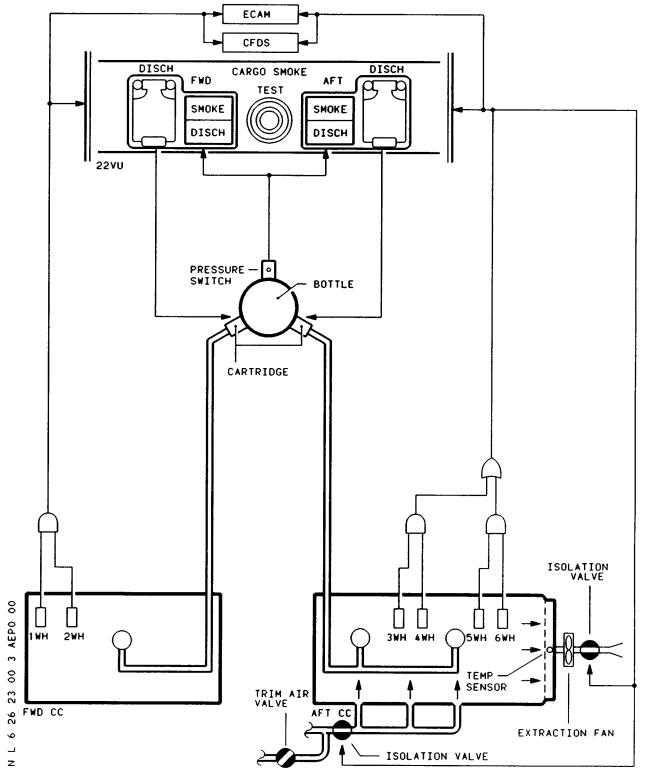
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Cargo Compartment Fire Extinguishing - Block Diagram Figure 301A

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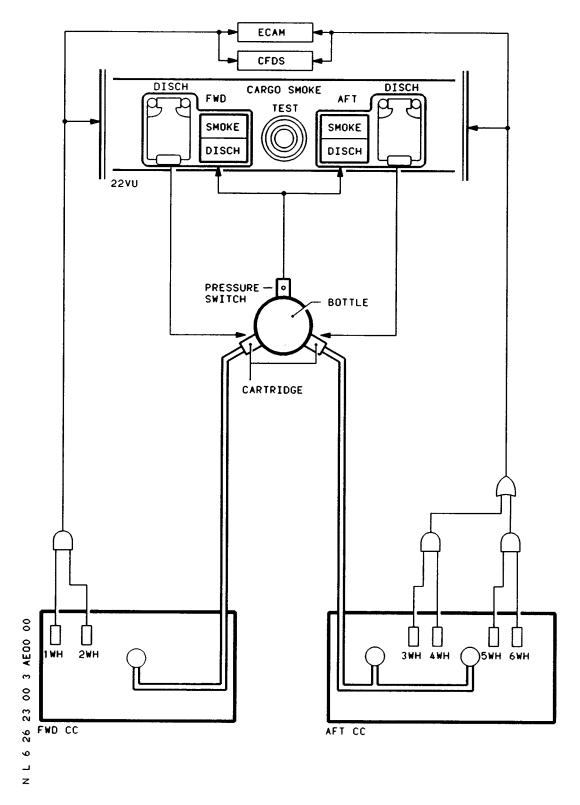
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Cargo Compartment Fire Extinguishing - Block Diagram Figure 301B

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Cargo Compartment Fire Extinguishing - Block Diagram Figure 301C

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