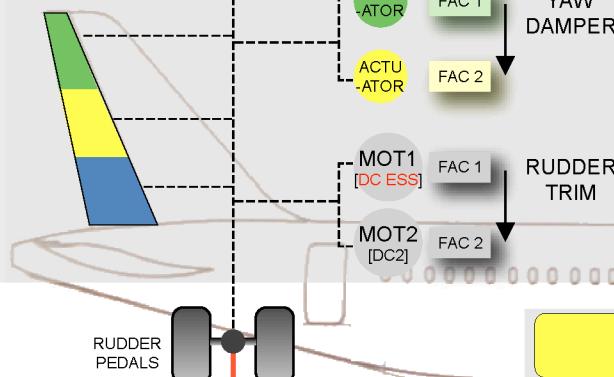


RUDDER

RUDER LIMITS
 - 30° for A319
 - 25° for A320/A321

RUDER TRIM LIMITS
 - 25° for A319
 - 20° for A320/A321

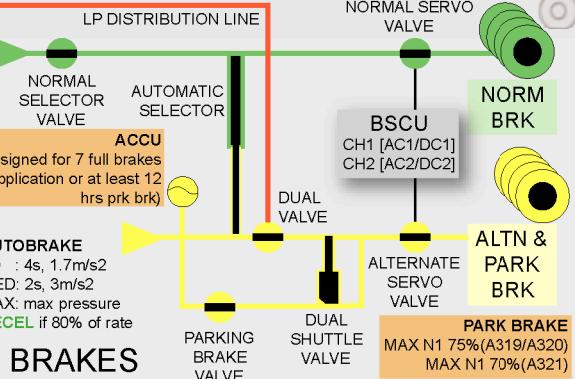


A320 FLT CONTROL LAWS

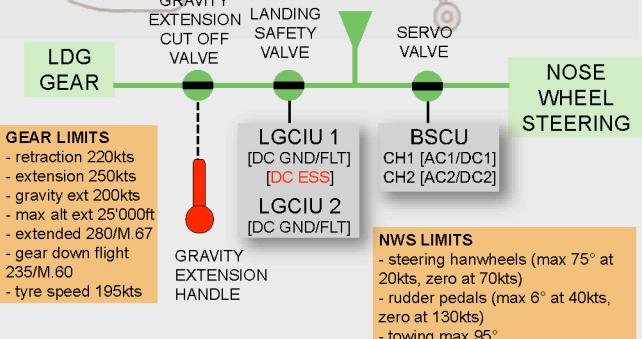
	PITCH	ROLL	PROTECTIONS
GND / RA>50ft	Direct deflection	Direct deflection	NORMAL Load factor +2.5g / -1g (clean) +2.0g / 0g (not clean)
FLT / RA<50ft	Load factor demand Auto pitch Trim		PITCH FLAPS 0-30°: 30°, FULL: 25° ANU, any: 15° AND BANK 67°/33°(stick 0), 45° if AOA or hi spd prot active
FLARE	Pitch attitude demand 50ft pitch to 2° AND in 8s		Side slip blue if eng failure High α, Vx prot, Vx floor, Vx max
		Roll rate	High speed bank 45°/0° (stick 0) Low energy warning Flaps 2,3 or FULL 100ft - 2000ft
	same as Normal	Roll direct Yaw alternate only damping +5° No turn coord.	Same as Normal except:
		Roll direct Yaw alternate	ALTERNATE X no Pitch attitude & Low energy prot High α: LOST if VS1g computation failure
		RUDDER ONLY Yaw by BYDU	Low speed, nose down demand 5-10kts > Stall warning High speed, light nose up demand, symbol disappears
			No protection except Overspeed & Stall warning
			DIRECT
			MECHANICAL BACK-UP

BRAKE TEMPERATURE
 A319/A320
 - T/O BRAK FAN ON 150°C
 - T/O BRAK FAN OFF 300°C
 - maintenance action if (TEMP difference on same gear > 150°C) and (1 BRAK >600°C or <60°C)
 - diff TEMP L-R 200°C
 - max TEMP 800°C

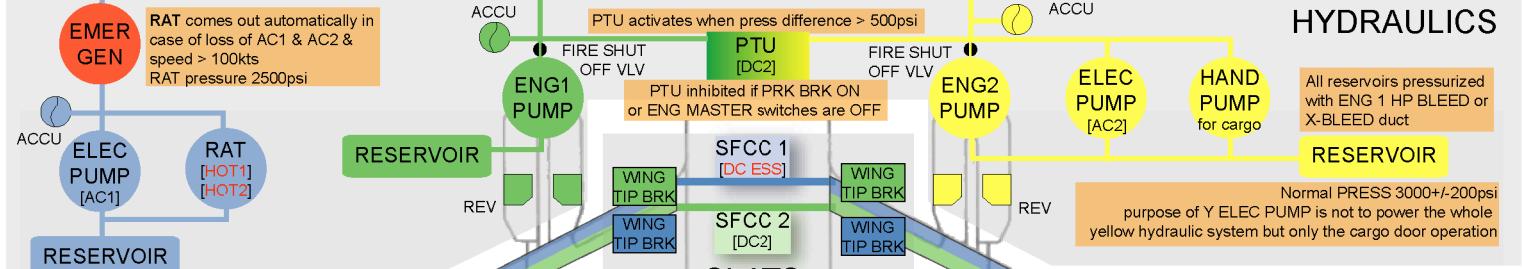
A321
 - T/O 260°C
 - maintenance action if (TEMP difference on same gear > 100°C) and (1 BRAK >425°C or <60°C)
 - diff TEMP L-R 150°C



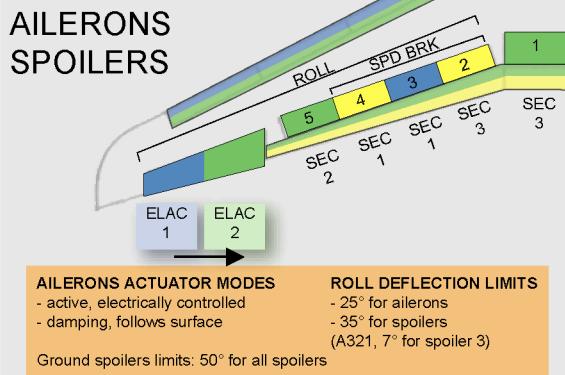
LANDING GEAR / NWS



HYDRAULICS



AILERONS SPOILERS



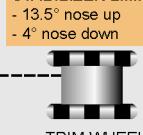
SLATS FLAPS

SFCC 1 [DC ESS]
SFCC 2 [DC2]

MOT1 [DC2] [HOT2]
MOT2 [DC ESS]
MOT3 [DC2]

ELAC 2 → ELAC 1
SEC 1 ← SEC 2

STABILIZER LIMITS
- 13.5° nose up
- 4° nose down



FLAPS extension / max speed

	A319	A320	A321
1 [18°]		0° / 230	
1+F [18°]		10°/215	
2 [22°]	15°/200	15°/200	14°/215
3 [22°]	20°/185	20°/185	21°/195
Full [27°]	40°/177	35°/177	25°/190

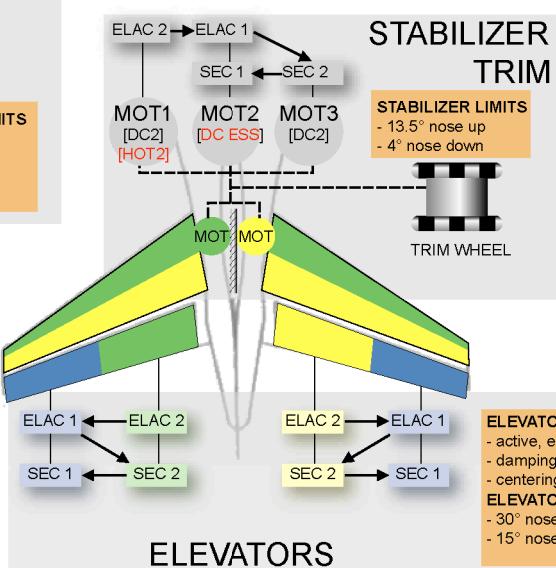
No Flaps/Slats above 20'000ft

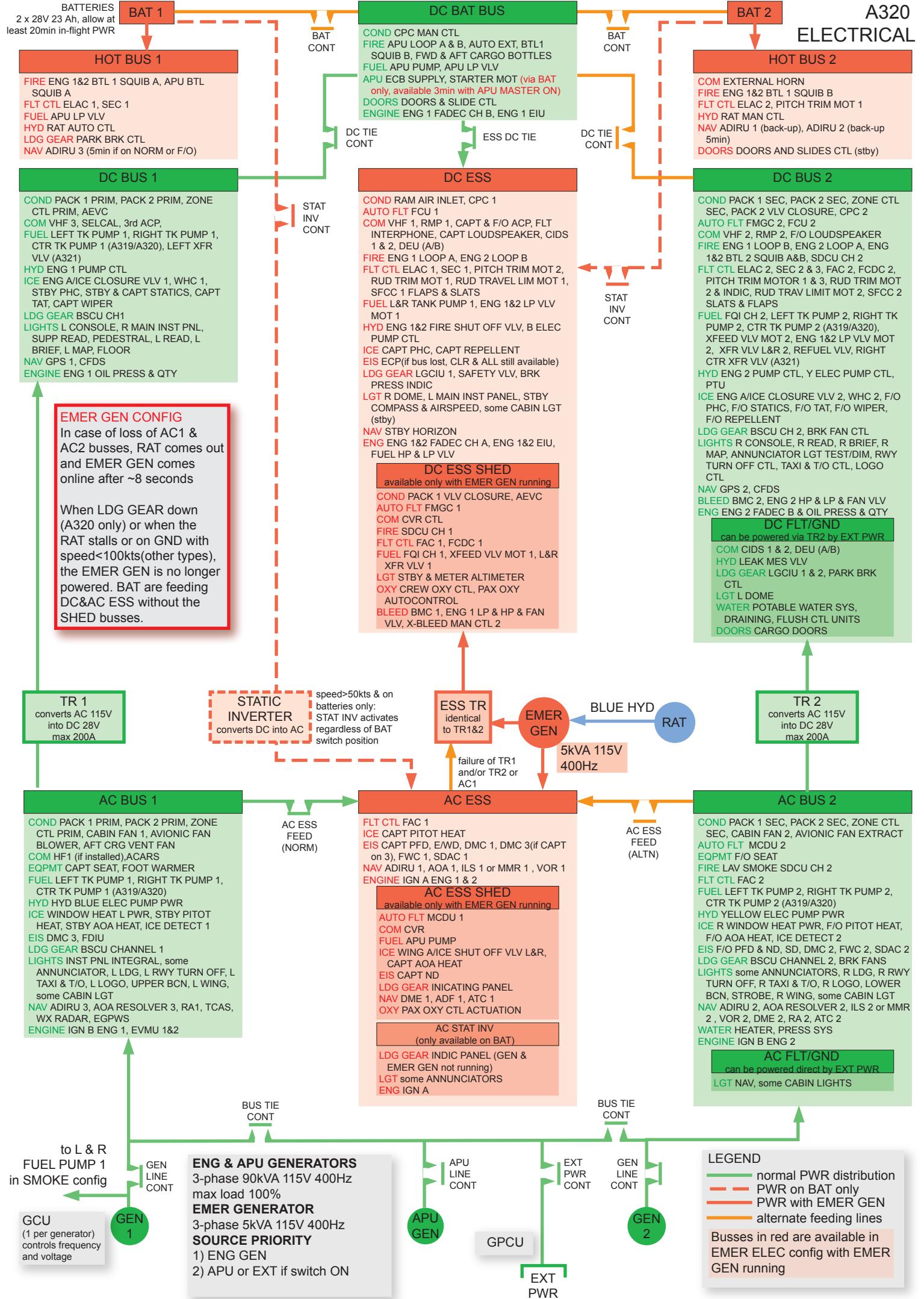
ELECTRICAL SUPPLY

FLIGHT CONTROL COMPUTERS

	MAIN	STBY
ELAC 1	DC ESS	HOT1
ELAC 2	DC2	HOT2
SEC 1	DC ESS	HOT1
SEC 2	DC2	
FAC 1	AC ESS	DC SHED
FAC 2	AC2	DC2
FCDC 1	DC SHED	
FCDC 2	DC2	

BUS in red are available in ELEC EMER config





CRUISE

DRIFT-DOWN

EMERGENCY DESCENT

BY-HEART ITEMS

CREW OXY MASK ON
DESCENT INITIATE THR LEVERS (if no A/THR) IDLE
SPD BRK USE SPEED
SPEED MAX

Mmo	HDG?	MGA?
Vmo	AWY?	MTCA?
PULL	PULL	PULL

1st loop: basic, FL180 / HDG R/L / Mmo
2nd loop: Terrain? / AWY? / Speed?



Decompression (OM A 8.3 2.4.5)

The flight plan has to allow at any point either a descent along the planned track or a diversion via an escape route in such a way that beyond 120 NM after initiation of an emergency descent the highest MOCA does not exceed 14,000 ft for 30 min. flight time. This altitude may be maintained for over 30 min. as long as supplemental oxygen for ten percent of the passengers is available. After that time or the time specified in the OM B the maximum flight altitude is 10,000 ft.

MINIMUM ALTITUDES

MGA MINIMUM GRID ALTITUDE (102)

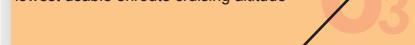
highest point <input checked="" type="checkbox"/>	increment <input checked="" type="checkbox"/>	102
< 5000ft <input type="checkbox"/>	1500ft <input type="checkbox"/>	
5000ft - 10000ft <input type="checkbox"/>	2000ft <input type="checkbox"/>	
> 10000ft <input type="checkbox"/>	10% + 1000ft <input type="checkbox"/>	

MTCA MINIMUM TERRAIN CLEARANCE ALT (78)

10NM each side of AWY, 2000ft above terrain without man-made obstacles. Shown from 7000ft up

MEA MINIMUM ENROUTE ALTITUDE (FL90)

lowest usable enroute cruising altitude



Cruise level (MAX 390)

descent in ~4'

EMERGENCY DESCENT PROFILE

FL180 / ~7'

descent in ~1'

Minimum altitude overhead checkpoint
Standard FMGS Climb

30kts Headwind

Green Dot Speed
PNR +/- 5NM

30kts Headwind

Checkpoint (not required)

DESCENT PATH
Calculation of descent path based on highest GW with ice prot ON and covers adverse temperatures and winds. descent gradient is 1.1% worse than actual available.

If no terrain problem, revert to normal descent path and accelerate to OEI cruise speed again
OEI LRC speed according OM B 7.1

ENGINE FAILURE IN CRUISE

- A/THR OFF
- set MCT
- select lower level OP DES
- select Green dot speed for drift-down or M.78/300kts for normal OEI descent.

FMA in Drift-Down:



ENGINE FAILURE (OM A 8.3 2.4.5)

In the event of an engine failure/engine shutdown or a multiple critical system failure, a landing shall be made at the most suitable aerodrome which should normally be reached within 60 min (330NM) flight time at OEI cruise speed (60 min. preflight). Actual wind, speed, FL, GW could lead to longer diversion time, which is considered in the 2-engine aeroplane fuel calculation.

TCAS (OM A 8.3 6)

Stall and GPWS warnings have precedence over ACAS messages.

The infringement of an ATC clearance based on information/advisory conveyed by ACAS lies within the authority of the CMD.

PROCEDURE

TA, TRAFFIC ADVISORIES "TRAFFIC, TRAFFIC"
PF select appropriate range, call out position of intruder, prepare for RA and stay on instruments.
PNF select appropriate range, in VMC look out for intruder, in IMC stays on the instruments

RA, RESOLUTION ADVISORIES

PF: AP OFF, FD OFF, fly into the vertical speed green range.
PNF monitors aircraft performance, looks out & advise ATC "...TCAS CLIMB / DESCENT"

RVSM REQUIREMENTS (OM A 8.3 2.5.2)

Two independent altitude measurement systems each equipped with:

- Cross-coupled static/source system with ice protection in areas subject to ice accretion;
- display of the computed pressure altitude to the flight crew;
- digital encoding of the displayed altitude;
- signals referenced to a pilot selected altitude for automatic altitude control and alerting;
- static source error correction;
- one SSR transponder with altitude reporting in use;
- an altitude alerting system;
- an automatic altitude control system;

NAVIGATION REQUIREMENTS (OM A 8.3 2.3.2)

B-NAV: Basic RNAV is used in the ECAC countries for enroute navigation. The necessary equipment (RNAV) ensuring RNP5 has to be carried and to be operative in these countries above certain levels (see OM C NAV);

RNP: The Required Navigation Performance is defined as a statement of the navigational accuracy required for operation in a defined area of airspace. The level of accuracy is expressed as a single parameter and it defines the distance from the aeroplane's intended position within which the aeroplane must be maintained for at least 95% of the total flying time.

RNP4 will normally be applied in continental areas in which the route structure is based on VOR/DME.

RNP5 is the level of accuracy required in European airspace.

DISTRESS

"MAYDAY MAYDAY MAYDAY"

Condition of being threatened by serious imminent danger / emergency or requiring immediate assistance

URGENCY

"PANPAN PANPAN PANPAN"

condition concerning safety of a/c or vehicle or person on board which does not require immediate assistance

SATCOM A320

0	0	+ national code + number + #
REGA <input type="checkbox"/>	<input type="checkbox"/>	+41 33 333 33 33
SWISS MEDICAL <input type="checkbox"/>	<input type="checkbox"/>	+41 43 812 68 35

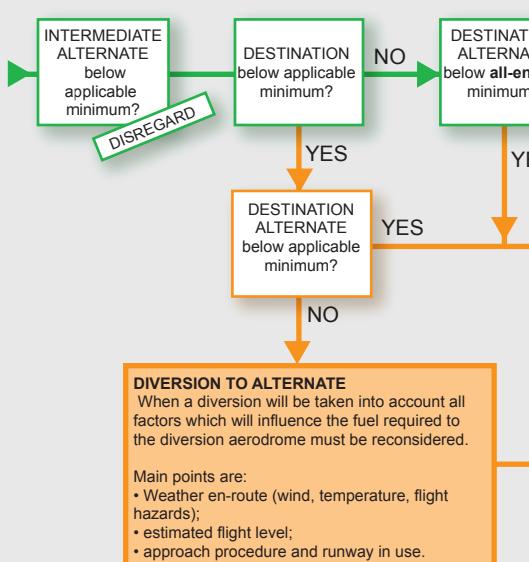
DECLARE EMERGENCY in case of

- Visible smoke of unknown origin
- Fire on board
- Structural damage
- Dual hydraulic failure
- total loss of electrical power
- total loss of navigation systems
- total loss of ice protection systems in icing conditions
- incapacitation
- Fuel qty drops below final reserve

EMERGENCY FREQUENCIES

VHF (MHz)	121.50 (main)
	123.40 (backup)
	126.90 (backup)
HF (kHz)	2182
	4125

INFLIGHT MANAGEMENT



FUEL MANAGEMENT ☺ 2 OPTIONS!
the policy to plan with the availability of at least two LDG possibilities should be maintained as long as possible
- the CMD shall ensure to have FR at LDG
- otherwise EMERG has to be declared to receive LDG priority
- STOPs / EROPS: fuel scenarios legally no more required
Trend of METAR may be used if valid for ETA. CRVR may be used as in planning principle.

REPLANNING
A replanning is required when either:
• a new destination is selected
• a significant deviation from the route not covered by contingency fuel
For replanning, use same rules as for planning.
After passing ETA-6hrs, a replanning without DEST ALTN may be performed

COMMITMENT TO PROCEED
Commander must take into account
• remaining FUEL
• weather
• traffic situation, airport (multiple runway) so as to land with not less than FINAL RESERVE

☺ NO OPTION!

CHAPTER 21: AIR CONDITIONING

PACK TEMP CONT	PACK #1	122VU	X21	28VDC	30 SEC POWER-	Recirc Fans Left (FWD)	SPLY CTRL	122VU	X18
		122VU	X22	115VAC	UP TEST				
(NOTE 1)	PACK #2	122VU	W21	28VDC	30 SEC POWER-	Right (AFT)	SPLY CTRL	122VU	X20
		122VU	W22	115VAC	UP TEST				

PACK TEMP CONT (NOTE 1)	PACK #1	122VU	Y19	28VDC	30 SEC POWER-	Lav/Galley Vent Extract Fan (Note 6)	SPLY CTRL	122VU	Y18
		REG FAULT	122VU	Y18	115VAC				
(NOTE 1)	PACK #2	122VU	Y21	28VDC	30 SEC POWER-	NOTES	U19	122VU	Y20
	REG FAULT	122VU	Y20	115VAC	UP TEST				

Flow	SYS #1	CTL/IND	49VU(122VU)	D7(V22)	(620-37)				
	SYS #2	CTL/IND	122VU	V21					
MIXER FLAP			122VU	V22(V23)	(620-37)				
RAM AIR INLET			49VU	D10					

ZONE TEMP CONT (OK IN FLT)	SYS #1	122VU	V19	28VDC	36 SEC POWER-	NOTES	1) REG FAULTS CAUSE NO SYS DEGRADATION SYS 1-RESET Y18 SYS 2-RESET Y20	122VU	Y17
	SYS #2	122VU	V17	115VAC	UP TEST				

AEVC	VENT CONT	49VU	D5(D6)	(620-37)	85 SEC POWER-	NOTES	2) DEICING PROBLEMS-NORMALLY RESETS VIA RESET OF Y17 AVIONICS VENT 122 VU Y17 IF NO HELP ACCOMPLISH CFDS AEVC TEST	122VU	Y17
	VENT CONT	49VU	D6(D7)	(620-37)	UP TEST				
VENT MONG	P/B OFF	122VU	Y17						
	EXTRACT FAN	123VU	AE2						
BLOWER FAN		123VU	AD10						

PRESSURIZATION	Do Not Reset in Flt!					NOTES	3) TRIM AIR SYS CLASS I-RESET VENT MONG (122VU Y17) 4) HOT AIR-SELECT P/B OFF RESET ALL FOUR ZONE TEMP CONT CBs	122VU	Y17
	CAB PRESS	CONT #1	49VU	D9	1 SEC POWER-				
		CONT #2	122VU	Y22	UP TEST				

MANUAL 122VU Y23

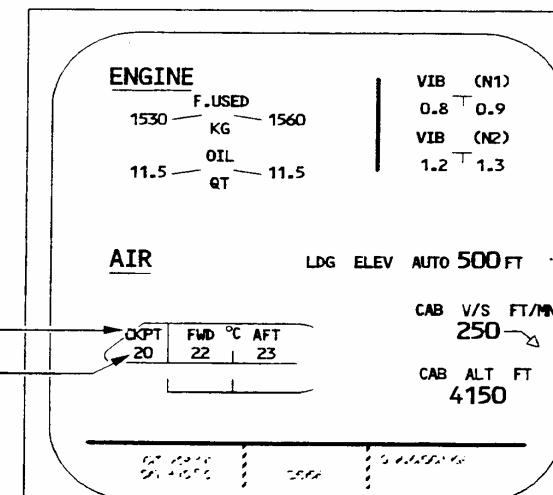
CHAPTER 21: AIR CONDITIONING

Recirc Fans Left (FWD)	SPLY	122VU	X18
	CTRL	122VU	X20
Right (AFT)	SPLY	122VU	W18
	CTRL	122VU	W20

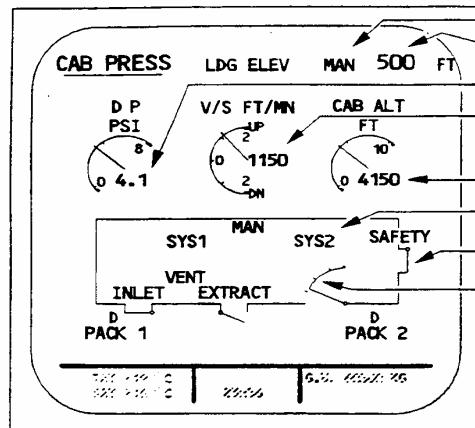
Ref Only

Zone Ind

Zone Temp

CRUISE PAGE

ECAM CAB PRESS PAGE



LDG ELEV AUTO/MAN

LANDING ELEV

CAB DIFF PRESS

CABIN V/S

CAB ALT

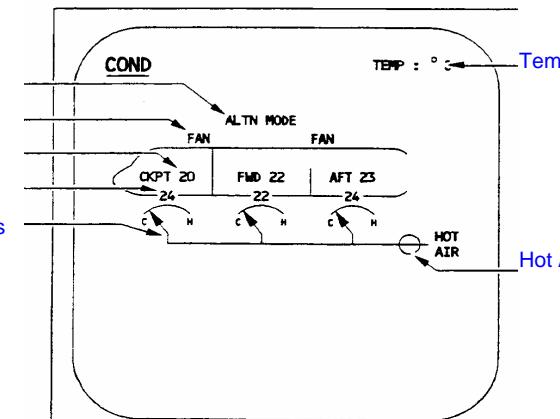
ACTIVE SYS (1,2 OR MAN)

SAFETY VALVE POS

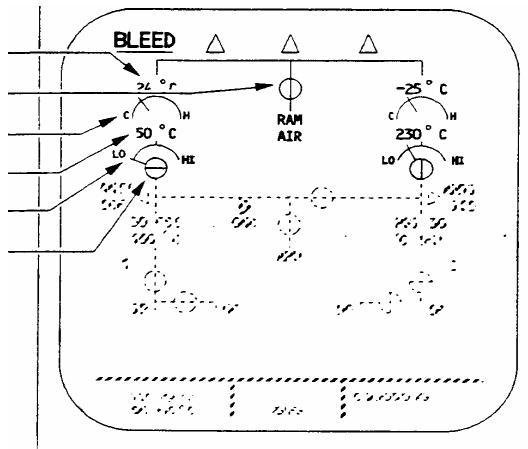
OUTFLOW VLV POS

NFC5-01-212D-010-A001AA

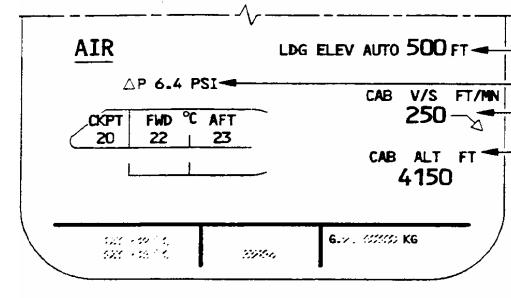
PAGE



Hot Air Press Reg Vlv

Pack Outlet Temp
Ram Air InletPack By-pass Vlv Pos
Pack Compressor Outlet Temp
Pack Flow
Pack Flow Ctl Vlv

I CRUISE PAGE

LDG ELEV AUTO/MAN
DIFF PRESS
CAB V/S
CAB ALT

CHAPTER 22: AUTO FLIGHT SYSTEM

					Ref Only
FAC (NOTE 4)	SYS #1	49VU	B3	28VDC	90 SEC POWER-
		49VU	B4	28VDC	UP TEST
FMGC** (NOTE 6,7)	SYS #2	121VU	M18	28VDC	
		121VU	M19	28VDC	
FCU	SYS #1	49VU	B2		2 MIN RESET AND 2 MIN
	SYS #2	121VU	M17		POWER-UP TEST
MCDU (NOTE 8)	SYS #1	49VU	B5	BOTH SYSs PULLED-7 MIN RESET	
	SYS #2	122VU	M21	1 SYS PULLED-1 MIN RESET	
RUDDER	RUDDER ATF FEEL	121VU	N20		10 SEC POWER-UP TEST
	RUDDER TRIM IND	121VU	M20		
STICK LOCK		121VU	N16		

CHAPTER 22: AUTO FLIGHT SYSTEM

- FAULTS**
- 1) YAW DAMP** FAC P/B ON THEN OFF
- 2) WINDSHEAR** A/C STOPPED
SELECT FAC #1 OFF
PULL CB FOR FAC #1
WAIT 30 SEC-RESET CB AND FAC #1
- 3) BARO REF** BOTH FD OFF
PULL FCU SYS #1 CB FOR 10 SEC
- 4) FAC RESET** W/ ENG(s) RUNNING ONLY RESET 1 SYS AT A TIME.
- 5) AUTO PILOT 1(2) FAULT-TYPICALLY CAUSED BY FMGC FAULT**
- 6) FMGC-VARIFY FMGC FAILURE: CHANGE RANGE ON NAV DISPLAYS.
IF "OFF SIDE RANGE MODE" IS DISPLAYED-RESET APPRPRIATE FMGC.**
- 7) FMGC RESET**
- 1ST TRY FDs OFF. PULL CBs FOR 10 SECs.
 - 2ND TRY
 - A) ENGs SHUT DOWN
 - B) STABLE POWER SOURCE FOR 3 MINs
 - C) BOTH FDs OFF
 - D) PULL FMGC AND MCDU CBs FOR 2 MIN
2 MIN PWR-UP TEST
(WAIT 1 MIN AFTER "PLEASE WAIT" ON MCDU.)
 - 3RD TRY POWER DOWN A/C
- 8) DUAL MCDU LOCK UP-NORMALLY RESETS VIA MCDU**
- 9) AUTO THRUST PROBLEM- 1ST RESET FCU
2ND RESET FMGC
3RD TURN IRUs OFF AND REALIGN**
- 10) DUAL CAT III MESSAGE-RESET FAC CBs
(Results with loss of 1 FMGC)**
- CFDS-SYS REPORT/TEST-AFS-GND SCAN-GND REPORT**
-ASF TEST-(TESTs FAC 1, FAC 2, FMGC 1 & 2)

Ref Only

CHAPTER 23-COMMUNICATIONSRef Only

CIDS (2-3 MIN PWR-UP TST)

DIR 1&2 ESS	49VU	G2		
DIR 1&2 NORM	121VU	M5		
DIR 1&2 BATT	121VU	(N11)	(618,629-37,643-46,652-62)	
PTP	121VU	M6		
FAP	121VU	M14 (Q14)	(661,all 319s)	
DEU B NORM	121VU	M7		
DEU A ESS	49VU	G3		
LINE 1	49VU	G4		
LINE 2	49VU	G5		
DEU A NORM				
L FWD	121VU	M8		
R FWD	121VU	M9		
L MID	121VU	M10		
R MID	121VU	M11		
L AFT	121VU	M12		
R AFT	121VU	M13		
VHF	SYS #1	49VU	G9	10 SEC P/U TEST
	SYS #2	121VU	L4	
	SYS #3	121VU	L5	*IF INSTALLED
ACP	#1 (CAPT)	49VU	G6	1 SEC P/U TEST
	#2 (FO)	49VU	G7	
	#3 (OCCUP)	121VU	M2	
	#4 (AVI COMP)	121VU	M3	*IF INSTALLED
RMP	#1 (CAPT)	49VU	G10	2 SEC P/U TEST
(NOTE 5)	#2 (FO)	121VU	L2	
	#3 (OCCUP)	121VU	L3	
FLT INTERPHONE		49VU	G8	
SELCAL		121VU	M14	
HF	#1	121VU	L10	
	#2-DEACTIVATED	121VU	L13	
EIS HORN		49VU	P09	
AMU/COM	AUDIO-FLT INT	49VU	G8	
	AUDIO-FO	49VU	G7	
	AUDIO-CAPT	49VU	G6	
	NAV/SELCAL	121VU	M4	
	NAV/ACP/3RD	121VU	M2	
PES COM SYS		2000VU	F06	
CABIN COM SYS	PRAM	2000VU	F07	
	(2000VU LOCATED FWD GALLEY CEILING)			

CHAPTER 23-COMMUNICATIONSRef Only**NOTES:**1) DEU A-CONTROLS LIGHT, CALL SIGNS, SPEAKERS
DEU B-CONTROLS INTERPHONE, P/A, CALL, EVAC LITES**2) CIDS RESET A320****OPTION A**PULL G2,M5 (N11 ON A/C 618,629-637,643-46,652-62)
CLOSE AFTER 30 SEC**OPTION B**G2-5,M5-M14, & (N11 ON A/C 618,629-637,643-46,652-62)
WAIT 30 SEC, CLOSE G3-5 AND M6-14

WAIT 30 SEC, CLOSE G2, M5 & (N11)

3) CIDS RESET A319DIR ESS/1 49VU G01
DIR ESS/2 49VU G02
NORM & BATT 121VU M5,6,P13,144) PAX ENTERTAINMENT-RESET CABIN COM SYS PES CB ON
FWD OVERHEAD PANEL (200VU F6)

5) RMP FAULTS-TURN OFF AFFECTED RMP TO RESET

6) CFDS-SYS REPORT/TEST-

COM-AUDIO-TEST-AMU ACP

- RMP 1(2,3)-TEST
- HF 1 (2)-TEST
- VHF 1 (2,3)-TEST
- CIDS 1(2)-TEST-DIR 1(2)

-CIDS BUS

-DEU A (B)

-NEXT PAGE-P&T PANEL

-CAM

-FWD ATT PNL

-AFT ATT PNL

-ATT IND PNL

-NEXT PAGE-LD SPKRS

-SIGN LTS

-PAX CALL LT

-AREA CALL PNLS

-READING/WRK LTS

-NEXT PAGE-EMER LIGHTING BATT

-DRAIN MASTS

-PES MUSIC

- 7) CIDS (PTP) SYS STS - SLIDES PRESS LOW-(WILL IND WHICH SLIDE IS LO)
- CIDS OK
 - CONT-DRAIN MASKS OK
 - MAINTENANCE-CONT-CONT-GROUND SCAN
- SYS TEST-** DIR 1 (ACT)
- DIR 2
 - RESET
 - CONT-CIDS BUS
 - DEU A (B)
 - CONT-PROG AND TEST PNL
 - CAM
 - FWD ATT PNL
 - CONT-AFT ATT PNL
 - ATT IND PNLS
 - LOUD SPKRS
 - CONT-SIGN LTS
 - PAX CALL LTS
 - AREA CALL PNLS
 - CONT-READING/WORK LTS
 - EMER LITE BATT
 - DRAINMASTS
 - CONT-PES MUSIC

CHAPTER 24: ELECTRICAL

Ref Only			
GROUND POWER	GPCU	122VU	Y24
	GND PWR PROT	123VU	AB7
	EGIU 1	122VU	Z31
	EGIU 1	123VU	AA7
AC BUS 1	CTL	122VU	V25
	GEN 1 BTC 1 SPLY	122VU	T28
AC BUS 2	GEN 1 BTC 2 SPLY	122VU	T30
	CTL	122VU	V27
	GEN 2 BTC 1 SPLY	122VU	T29
	GEN 2 BTC 2 SPLY	122VU	T31
AC ESS	AC BUS MONG	49VU	H11
	ESS ON BUS 1	123VU	AC12
	ESS ON BUS 2	123VU	AC1
	ESS BUS MONG/SPLY	106VU	2XH
	ESS NORM CNTOR/CTL	106VU	2XC
	ESS EMER CNTOR/SPLY	106VU	15PC
	ESS EMER CNTOR/CTL	106VU	5XE
	ESS EMER CNTOR/CTL	106VU	5XC
	EMER/STBY CNTOR/SPLY	106VU	10XE
	SHED/CNTOR/SPLY	106VU	1PH
DC BUS	SHED/CNTOR/CTL	106VU	1XH
	BUS TIE 1/CNTOR	122VU	W25
	BUS TIE 2/APU START	122VU	W31
	BUS TIE 1 FAULT	122VU	U24
	BUS 1 & 2 MONG	106VU	68WU
AUXILLARY AC	ESS BUS TIE CNTR	122VU	W26
	REF ASM		
	BUS 1 110XP SPLY	123VU	AF11
	BUS 1 101XP SPLY	123VU	AD11
	BUS 1 103XP SPLY	123VU	AB11
	BUS 1 131XP SPLY	123VU	AB12
	BUS 2 210XP SPLY	123VU	AF2
	BUS 2 202XP SPLY	123VU	AD2
	BUS 2 212XP SPLY	123VU	AD3
	BUS 2 231XP SPLY	123VU	AB1
	BUS 2 204XP SPLY	123VU	AB2
	SVCE BUS 2 SPLY 212XP	123VU	AB5
	SVCE BUS 2 SPLY 214XP	123VU	AA5
DC	101PP SPLY	125VU	CD
	103PP SPLY	125VU	CE
	202PP SPLY	124VU	BG
	204PP SPLY	124VU	BF
	206/208PP SPLY	124VU	BE
	601/602PP SPLY	124VU	BB
	SVCE BUS 8PP SPLY	124VU	BD
			24-68-05/06
			24-68-10/11
			24-68-99

CHAPTER 24: ELECTRICAL

Ref Only			
CONTROL	GCU 1	122VU	T26
	GCU 2	122VU	T27
	APU GCU	122VU	Y25
	IDG 1 DISC	122VU	T24
	IDG 2 DISC	122VU	T25
TRU #1 (NOTE 1)	SPLY	123VU	AB10
	MONG	122VU	X25
	CNTOR SPLY	125VU	CF1
	FAULT	122VU	W29
TRU #2 (NOTE 1)	SPLY	123VU	AB4
	MONG	122VU	X26
	CNTOR SPLY	125VU	BC
	FAULT	122VU	W30
ESS TR (TR #3) (NOTE 1 & 2)	SPLY	106VU	4PE
	CNTOR SPLY	106VU	5PE
LIGHTS	LT CTRL	49VU	H10
	EXT PWR LT CTRL	122VU	X29
	COCKPIT AVAIL	122VU	X28
	NOT IN USE	122VU	X30
	AVAIL	122VU	X31
EGIU #1	GEN 1	122VU	Z30
(Elec Generation Interface Unit)	GEN 1	123VU	AF12
	EXT PWR	122VU	Z31
	EXT PWR	123VU	AA7
EGIU #2	GEN 2	122VU	Y30
	GEN 2	123VU	AF12
	APU GEN	122VU	Y31
	APU GEN	123VU	AA8
SERVICE BUS	AC POWER/SERVICE	122VU	V29
	DC SERVICE BUS	122VU	X24
	DC BUS ON TR2	122VU	U30
	TR2 SPLY FROM GND SVCE	123VU	AB8
STAT INV	CTRL	105VU	14XB
	SPLY	105VU	12XB
BAT BUS	(701PP) HOT BUS SPLY	105VU	5PB1
	(301PP) BAT BUS SPLY	125VU	CC
	BAT REF BCL 1	105VU	9PB1
	BAT REF BCL 2	105VU	9PB2
	BAT BUS REF BCL 1	105VU	8PB1
	BAT BUS REF BCL 2	105VU	8PB2
EMER	CSM/G EV AUTO	105VU	7XE
	CSM/G EV MAN	106VU	4XE
	GEN AUTO 1	122VU	Z25
	GEN AUTO 2	122VU	Z26

CHAPTER 24: ELECTRICAL

Ref Only

NOTES: 1) TRU NORMALLY WILL RESET VIA CFDS
CFDS:SYS REPORT/TEST-ELEC-TR1(2,3)-RESET

2) **ESS TR (TR3)-IF CFDS NO RESET:**
BLUE HYD ON
DEPRESS EMER GEN (OVERHEAD-BLACK GUARDED SW)
WHILE GEN IS SPOOLING UP-DEPRESS RED GUARDED
BUTTON ON 103VU TO RESET.

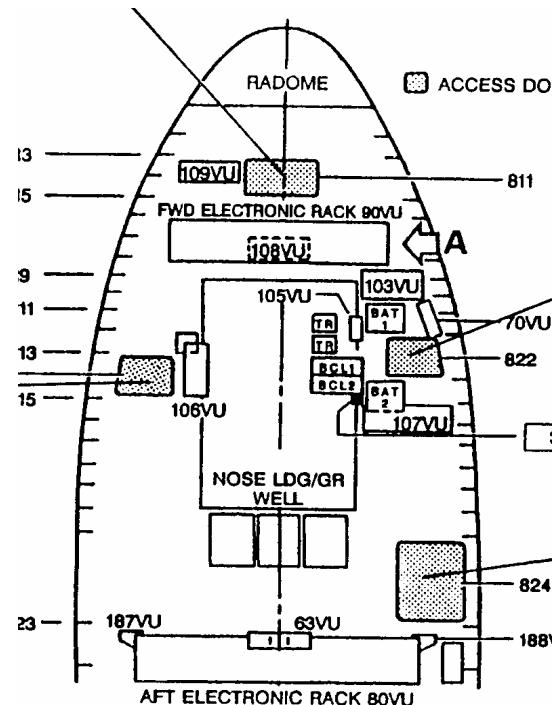
3) **ENG 1(2) GEN ON LINE (GREEN LINE) AND/OR**
PARAMETERS NOT SHOWN:
ENG MUST BE DOWN-RESET GCU 1(2) CB T26(T27)

4) **NO "AVAIL" GREEN LEGEND DISPLAYED ON "EXT PWR" P/B SW:**
ENG AND APU SHUT DOWN. GND PWR CONNECTED
RESET GPCU Y24.

5) **BATTERY CHARGE LIMITER (BCL) 1(2) FAULT**

A) CYCLE APPROPRIATE BATTERY SW.

B) IF NO HELP: RESET BAT REF BCL 1 (105VU)
 BAT BUS REF BCL1 (105VU)
 BAT REF BCL 2 (105VU)
 BAT BUS REF BCL 2 (105VU)

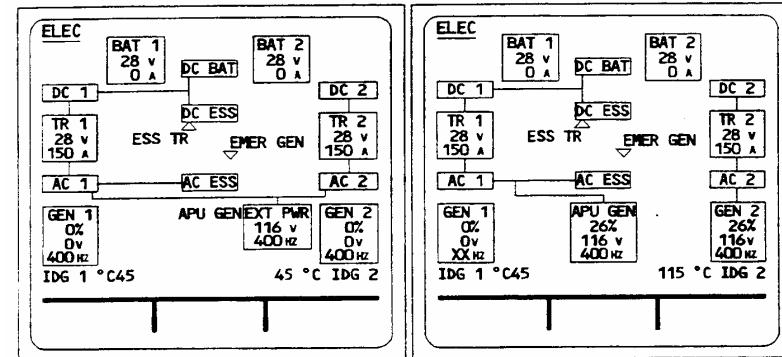
**CHAPTER 24: ELECTRICAL**

Ref Only

GALLEY	28 VAC ESS SPPLY	106VU	4XH
	EMER/G REF	106VU	27WV
	GND/FLT LOGIC	122VU	S24
	FAULT LT CTL	122VU	S25
	CTL	122VU	S26
	GALLEY CNTR	122VU	S28
	MAIN FWD FEEDER 'C'	123VU	AE10
	MAIN FWD FEEDER 'E'	123VU	AC10
	FWD FEEDER "D"	123VU	AD4
	MAIN AFT FEEDER "A"	123VU	AF4
	MAIN AFT FEEDER "E"	123VU	AF9
	MAIN AFT FEEDER "B"	123VU	AD9

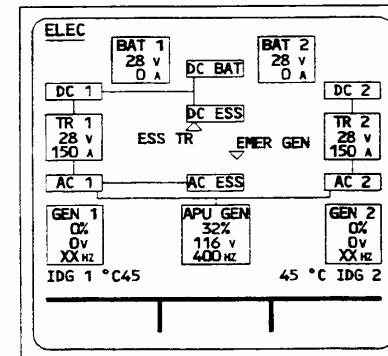
ON GROUND

Either the APU generator or external power may supply the complete system.

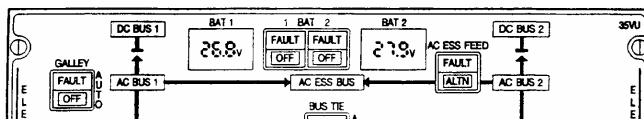


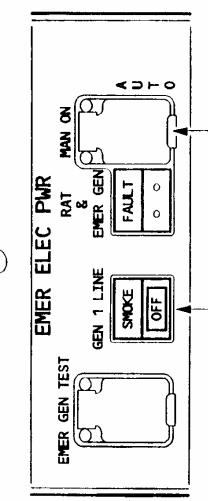
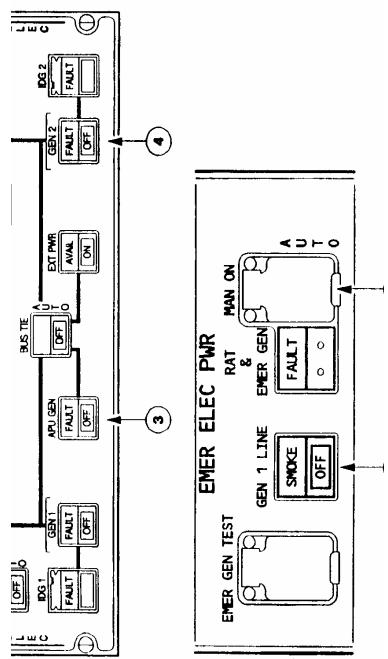
EXTERNAL POWER ONLY

APU GEN + GEN 2



APU GEN ONLY





CHAPTER 25: EQUIPMENT

			<u>Ref Only</u>
PRAM (Prerecorded Announ Module)		2000VU	F07 CB's OUT FOR AT LEAST 3 MIN
MUSIC TAPE REPRODUCER SYS		2000VU	
CAB COM SYS VIDEO	CONT	2001VU	7 MIN PWR-UP TEST. ALSO
	L CABIN	2001VU	CIDS TESTING FOR 3 MIN
	R CABIN	2001VU	FOR DEUs, SEBs, PSUs X-CHK

PAX ENTR SYS T/S GUIDE

VACUUM CLEANER	CABIN	2000VU
	CARGO	2001VU
LAV SHAVER SOCKET		2001VU
COCKPIT CREW SEATS	CTL CAPT	122VU U11
	CTL F/O	122VU U14

(Additional CBs Located Under Each Seat on the Control Box)

NOTES: 2000VU LOCATED FWD GALLEY CEILING
 2001VU LOCATED AFT GALLEY CEILING

CHAPTER 26: FIRE PROTECTIONRef Only

ENG #1 DET	LOOP A	49VU	A6	1 MIN PWR-
	LOOP B	121VU	Q38	UP TEST
ENG #2 DET	LOOP A	121VU	Q39	
	LOOP B	49VU	A7	
FIRE BOTTLE #1	SQUIB A	121VU	Q43	
	SQUIB B	121VU	Q44	
FIRE BOTTLE #2	SQUIB A	121VU	Q41	
	SQUIB B	121VU	Q42	
APU DETECTION	LOOP A	121VU	L43	
	LOOP B	121VU	L44	
APU BOTTLE	SQUIB A	121VU	L38	
	SQUIB B	121VU	L39	
AVIONIC SMOKE	AEVC	122VU	Y17 (MONG)	
		49VU	D6	
		49VU	D7	

NOTE: AVIONIC SMOKE DETECTION ACTIVATES GEN 1 SMOKE

LAV FIRE (SDCU)	CHAN 1	49VU	C6 (T17) (620-637)
	CHAN 2	122VU	T18

NOTES:

- 1) FWD & AFT CARGO DET MESSAGES-RESET SDCU CHAN 1 & CHAN 2.
- 2) LAV SMOKE DETECT-RESET SDCU CHAN 1 AND CHAN 2
- 3) SDCU RESETS IN FLT-RESET ONE AT A TIME SO THAT SMOKE DETECTION
ABILITY IS NOT LOST.
 - A) PULL SDCU CHANNEL 1 FOR 5 SECs
 - B) RESET-WAIT 2 MIN
 - C) REPEAT FOR CHANNEL 2

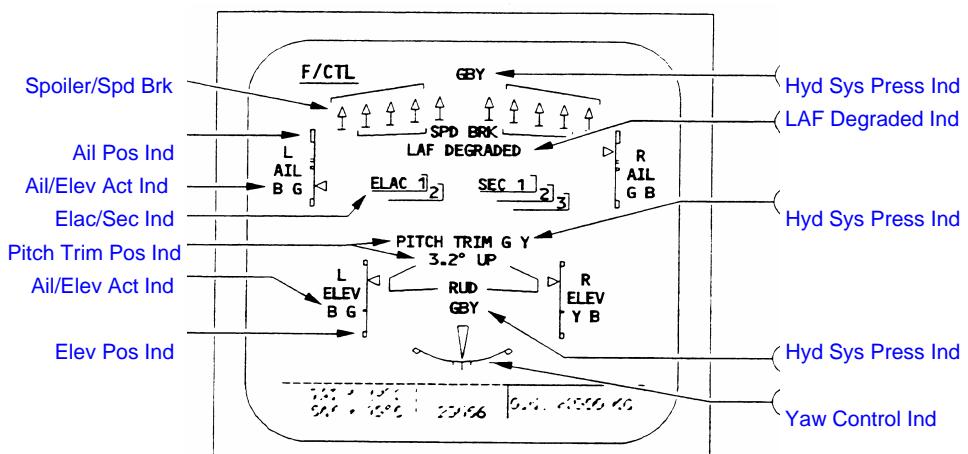
CHAPTER 27: FLIGHT CONTROLS

ELAC #1	NORM SPLY	49VU	B11	Ref Only
	STBY SPLY	*105VU	A02	8 Sec Pwr-up Test
ELAC #2	NORM SPLY	121VU	R20	*105VU LOCATED
	STBY SPLY	*105VU	A01	FWD R TOP BY BATT
SEC #1		49VU	B8	18 Sec Pwr-up Test
(HYD OFF)	STBY SPLY	*105VU	B01	
SEC #2		121VU	Q18	
SEC #3		121VU	Q19	
FCDC #1		49VU	B10	20 Sec Pwr-up Test (OK to Re-set in Flt)
FCDC #2	(MEL 27-95-01)	121VU	Q20	
SFCC				
****SLATS	SYS 1 CTL/MONG	49VU	B6	
	SYS 2 CTL/MONG	121VU	R21	
****FLAPS	SYS 1 CTL/MONG	49VU	B7	
	SYS 2 CTL/MONG	121VU	Q21	
****	DO NOT RESET BOTH FLAP OR SLAT SYSS AT ONCE THIS WILL CAUSE WTB LOCK!			
SLT/FLP #1	POS IND	49VU	B12	
SLT/FLP #2	POS IND	121VU	P16	
THS	THS ACT MOT #1	121VU	Q16	
	THS ACT MOT #2	49VU	B9	
	THS ACT MOT #3	121VU	Q17	
WTB	SYS #1 SLT	122VU	S6	
	FLP	122VU	S7	
	SYS #2 SLT	121VU	P19	
	FLP	121VU	P20	
RUDDER	TRIM IND	121VU	M20 (M22)	
	TRAVEL	SEE AUTO FLIGHT-FAC1 (2)		

CHAPTER 27: FLIGHT CONTROLS

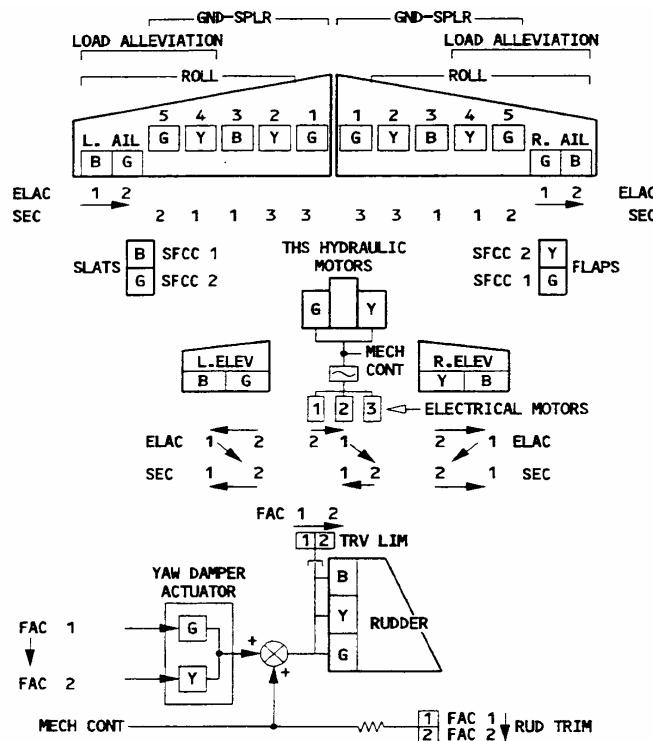
NOTES:

- 1) #2 SFCC MEL 27-51-1 Will Cause CONT IGNITION and Hi IDLE of #2 ENG
- 2) YAW DAMPER 1(2) AND RTL 1 (2) - CYCLE FAC 1 (2) P/B
- 3) CLASS II YAW DAMP-RESET FAC 1 or 2 with HYD ON.
EITHER W/ PUSH BUTTONS OR CBs
(REF ATA 22 FOR CBs)
- 4) **ELAC 1(2) PITCH FAULT (PRI ELEV CTL)** IF OCCURS ON PWR XFER-RESET
ELAC 1(2) SW & PERFORM FLT CTL CK VIGOROUSLY FROM BOTH SIDES
- 5) **ELAC PITCH FAULT (#1 CAN BE MEL)** A) BOTH ELACS OFF. BACK ON.
BOTH SECS OFF. BACK ON.
B) SET PAKING BRAKE
HYDRAULICS OFF
RESET ELAC P/Bs
PRESSURIZE HYDRAULICS
- 6) PFR WARN MESSAGE: **F/CTL SIDESTICK PRIORITY** with
ASSOCIATED FAULT: CHECK PRIORITY WIRING
MAINTENANCE ACTION: RESET BOTH ELACS' CBs FOLLOWED
BY SIDESTICK PRIORITY TEST.
**PULL ALL 4 ELAC CBs (2 ARE ON 105VU)
- 7) **SLATS USE B & G HYD**
FLAPS USE Y & G HYD
- 8) **FLT CTL LOCKED OUT-WING TIP BRAKE (WTB) RESET VIA CFDS**
- 9) **SLOW SLATS OR FLAPS-RESET APPROPRIATE SFCC CTL MONG CBs**
1 AT A TIME! IF BOTH PULLED SAME TIME WILL LOCKOUT WTB.
(#1 PROVIDES AMBER UPPER ECAM IND-RESET SYS 1)
IF GREEN-RESET SYS 2)
- 10) **FLT CTL MESS W/ L(R) AIL-LAF DEGRADE MESS-RESET ELAC 1(2) CBs**
- 11) **AMBER SPOILERS** ON FLT CTL PAGE WITH NO SEC FAILURES
PRESSURIZE ALL THREE HYD SYS (SHOULD CLEAR)
CYCLE SIDE STICK TO VERIFY.



CHAPTER 27: FLIGHT CONTROLS

[Ref Only](#)



CHAPTER 27: FLIGHT CONTROLS

[Ref Only](#)

CHAPTER 28: FUEL

		Ref Only	
FQI	CHANNEL 1	49VU	A13
	CHANNEL 2	121VU	M27
	CHANNEL 1 & 2	121VU	L26
* IF BOTH CHANNELS RESET AT THE SAME TIME, OUTBD XFER VLVS WILL OPEN AND SLIGHT AMOUNT OF FUEL WILL XFER. VLV OPERATION CAN BE MONITORED ON ECAM FUEL PAGE			
PUMPS			
L WING	PUMP 1 STBY SPLY	123VU	AD12
	CONT 1L	121VU	R23
	CONT 2L	121VU	R24
	IND	121VU	R28 & R29
	PUMP 1 SPLY	121VU	N23
	PUMP 2 SPLY	121VU	N26
R WING	PUMP 1 STBY SPLY	123VU	AE12
	CONT 1R	121VU	R28
	CONT 2R	121VU	R29
	IND	121VU	R23 & R24
	PUMP 1 SPLY	121VU	Q23
	PUMP 2 SPLY	121VU	Q26
CENTER	CONT & IND	121VU	R25 & R26
	AUTO CTL	121VU	R27
	PUMP 1 SPLY	121VU	P23
	PUMP 2 SPLY	121VU	P26
X-FEED	MOT 1	49VU	A12
	MOT 2	121VU	M24
X-FER	VALVE 1 LEFT	49VU	A10
	VALVE 2 LEFT	121VU	M22
	VALVE 1 RIGHT	49VU	A11
	VALVE 2 RIGHT	121VU	M23
ENG #1 LP VLV	MOT 1	49VU	A8
	MOT 2	121VU	M25
ENG #2 LP VLV	MOT 1	49VU	A9
	MOT 2	121VU	M26

CHAPTER 28: FUEL

	Ref Only
REFUEL/DEFUEL	XFER DEFUEL VLV
	SPLY
	HI LEVEL SPLY
MISC.	SMOKE CONFIG PUMP CTL
	REFUEL ON BAT
	REFUEL SPLY LOGIC
	DC SVC BUS ON TR2
	REFLG NORM

NOTES:**1) FUEL: AUTO FEED FAULT**

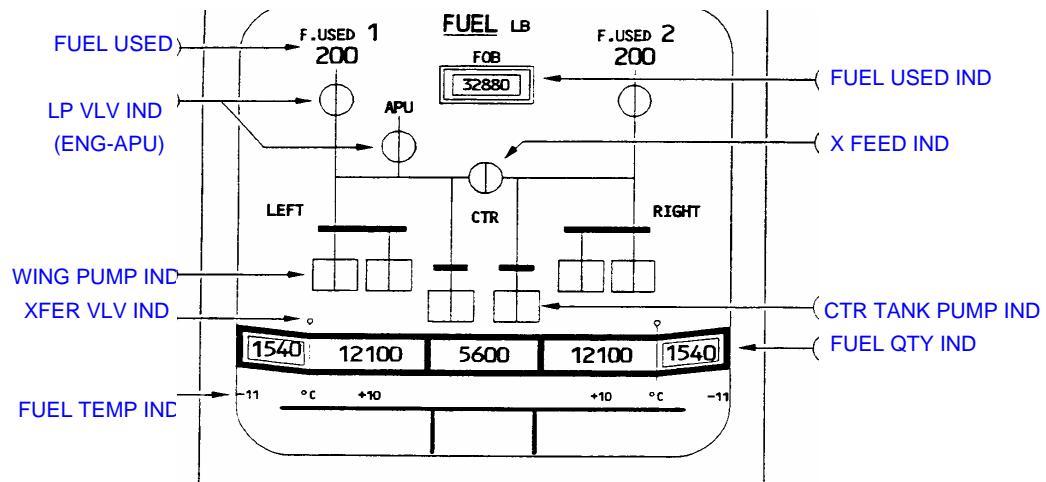
The fault is indicated if either wing tank quantity becomes less than 11023 lbs when the center tank quantity is above 550 lbs.

2) FUEL BURN SEQUENCE:

1ST) CTR TANKS (GREATER CTR PUMP OUTPUT PRESS)

2ND) INNER WING TANKS

**3RD) AT APPROX 1700 IN EITHER INNER TANK-
ALL 4 XFER VLVS OPEN AND OUTER WING TANK
FUEL FLOWS TO INNER TANKS FOR CONSUMPTION**



CHAPTER 29: HYDRAULIC SYSTEM

GREEN

G ENG 1 PUMP	MONG CTL FIRE VLV E1	121VU 121VU 49VU	R34 R35 C13
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YELLOW (NOTE 1)

Y ENG 2 PUMP	MONG CTL FIRE VLV E2	121VU 121VU 49VU	Q37 Q36 C14
Y ELEC PUMP	NORM	123VU 123VU 121VU	AB3 AB6 N30

BLUE (NOTE 5)

B ELEC PUMP	123VU	AB9
AIR PSI XMITTER	121VU	P34
(620-37) HYD PWR B WARN & CTL	49VU	C12(D14)
PTU (NOTES 2,3)	121VU	N34
INDICATION (620-37)	49VU	C11(D13)
QTY IND	121VU	P35
LOW LVL IND	121VU	N32
RAT	121VU	P32
CTL	121VU	P32
EXTN SOL 1 (MAN)	121VU	P33
EXTN SOL 2 (AUTO)	SDAC	
MISC	121VU	N35

Ref Only**CHAPTER 29: HYDRAULIC SYSTEM**

NOTES:

- 1) YELLOW HYD SYS NEEDS SERVICED-CLOSE CARGO DOORS
- 2) PTU FAULT (ENGINES RUNNING)
 - 1ST) YELLOW ELEC PUMP "ON"
 - WAIT 2 SEC
 - TURN Y ELEC PUMP "OFF"
- 2ND) SET BRAKES
 - BOTH ENG PUMPS "OFF"
 - Y ELEC PUMP "ON"
 - PTU P/B "OFF" THEN TO "AUTO"
 - Y ELEC PUMP "OFF"
 - ENG PUMPS "ON"
- 3) PTU FAULT **CAN BE CAUSED BY CARGO DOOR OPERATION AFTER ENG START
 - IF NOT RESET G/Y PTU VLV (N34)

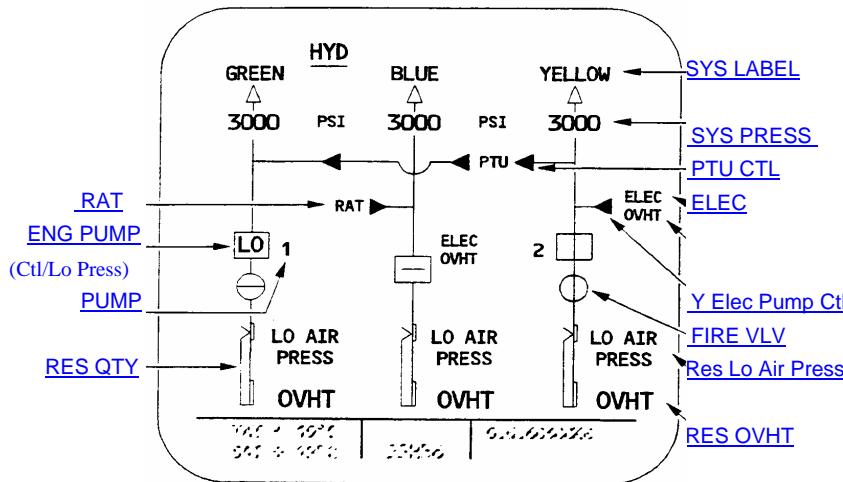
PTU FAULTS CAUSED BY CARGO DOOR OPERATION WITHIN 30 SECs AFTER 2ND ENG START AND PTU ECAM FAILURE MESS.

**THIS PROCEDURE WILL NOT RESET REAL PTU FAILURES OR HIDE FAULTS THAT DO EXIST IN THE PTU SYS.

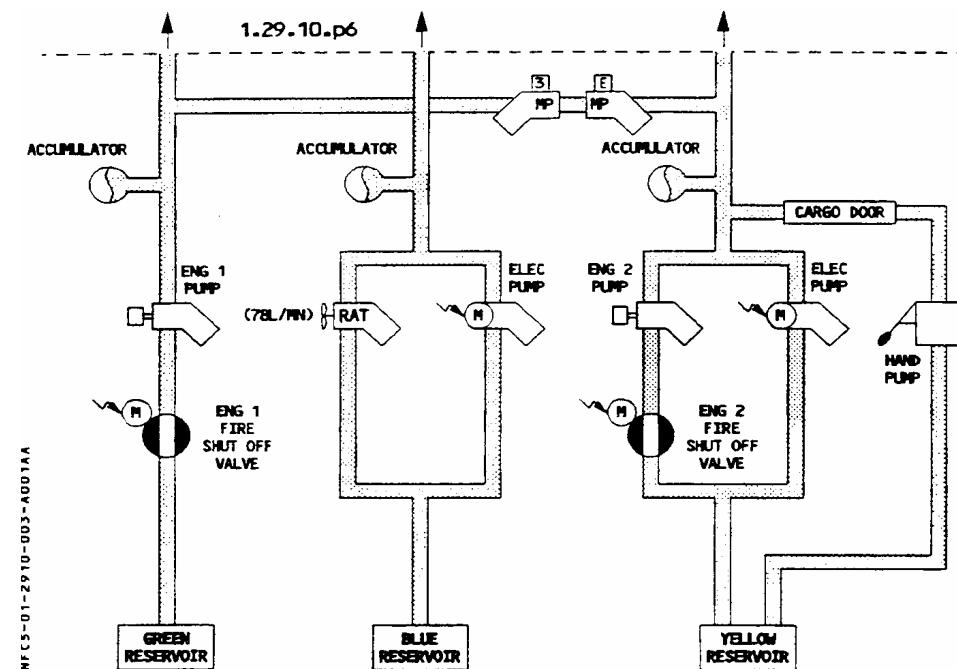
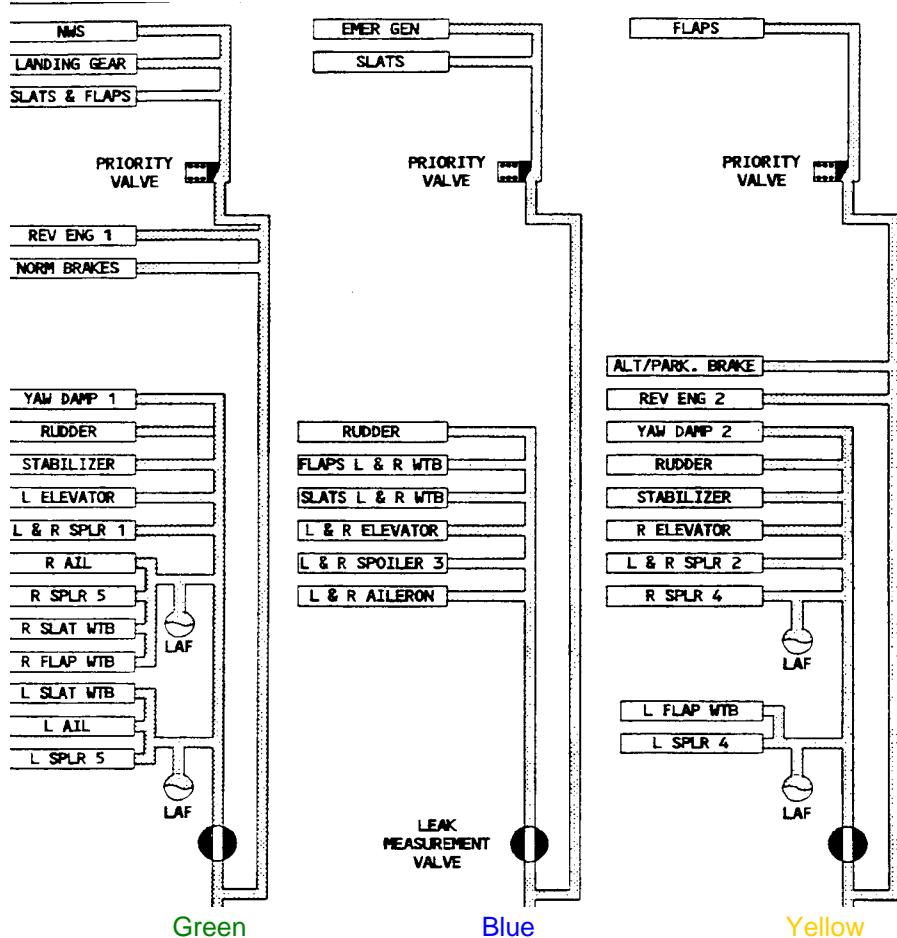
RESET W/ENGs RUNNING

 - A)RESET MESSAGE USING MASTER CAUTION P/B SW(s)
 - B) SELECT HYDRO PAGE ON ECAM
 - C) Y HYD ELEC PUMP ON THEN OFF
 - D) WAIT MINIMUM OF 30 SECs
 - E) CYCLE PTU SW ON-OFF-ON.
 - F) ENG 1 G HYD PUMP OFF
 - PTU SHOULD OPERATE Y TO G
 - G) ENG 1 G HYD PUMP ON
 - H) ENG 2 Y HYD PUMP OFF
 - PTU SHOULD OPERATE G-Y
 - I) ENG 2 Y HYD PUMP ON
 - J) ECAM SHOULD BE NORMAL
- 4) HYD RES LO PRESS MESSAGE

RUN ENG TO PRESS RES (PROBLEM OCCURS AFTER WORKING HYD SYS)
- 5) HYD LO PRESS WARNING-ALL 3 SYSs NORM PRESS SWs ARE SET AT 37 PSI. THE BLUE SYS HAS AN ADDITIONAL PRESS SW SET AT 45PSI DISPLAYED GND ONLY

Ref Only

SYSTEM USERS



CHAPTER 30: ICE & RAIN**PROBES (NOTE 3)**

SYS #1 CAPT	PHC 1	49VU	D3	2 Sec Pwr-up Test
	PITOT 1	49VU	D2	
	AOA 1 (NOTE 1)	49VU	D4	
	TAT 1	122VU	Z12	
	STATIC 1	122VU	Z13	
SYS #2 FO	PHC 2	122VU	Y12	2 Sec Pwr-up Test
	PITOT 2	122VU	Y14	
	AOA 2 (NOTE 1)	122VU	Y13	
	TAT 2	122VU	Y15	
	STATIC 2	122VU	T11	
SYS #3 STBY	PHC 3	122VU	Y16	2 Sec Pwr-up Test
	PITOT 3	122VU	Z16	
	AOA 3 (NOTE 1)	122VU	Z15	
	STATIC 3	122VU	Z14	
ENG-TAT	ENG 1 P2/T2	122VU	Z10	
	ENG 2 P2/T2	122VU	Y10	
	ENG 1 COWL	122VU	X10	
	ENG 2 COWL	122VU	W10	
ENG-A/I	ENG 1	122VU	X10	
	ENG 2	122VU	W10	
WING A/I	CTL	49VU(122VU)	C1 (V15)	(620-37)
	MONG	49VU(122VU)	C2 (V14)	(620-37)
WINDOW (NOTE 2)	WHC #1	122VU	X13 (3)	5 Sec Pwr-up Test
	WINDOWS L	122VU	X14 (2)	
	A/I WSHLD L	123VU	AF10 (1)	RESET
	WHC #2	122VU	W13 (3)	ORDER
	WINDOWS R	122VU	W14 (2)	
	A/I WSHLD R	123VU	AF3 (1)	
RAIN	WIPER CAPT	122VU	X12	
	REPELLANT CAPT	49VU	D1	
	WIPER FO	122VU	W12	
	REPELLANT FO	122VU	W11	
WATER/WASTE	AFT DRAIN MAST	2001VU	D01	18 Sec Pwr-up Test
	FWD DRAIN MAST	2000VU	D04	
	WASTE H2O LINE HEAT	200OVU	1DW	
	WASTE H2O LINE HEAT CTL	2000VU	2DW	
MISC	FOOT WARMER	122VU	X15	

NOTES

- 1) AOA FAULT-RESET ALL 5 CBs ASSOCIATED W/WHC SYS 1(2)
- 2) WINDOW HEAT FAULTS- PULL AND RESET
CBs IN ORDER AS INDICATED FOR RESET.
- 3) ANTI ICE PROBE MESSAGES-IF PROBE RESETS DO NOT RESOLVE:
RESET ADIRU CBs

CHAPTER 30: ICE & RAIN**Ref Only**

CHAPTE 31: INDICATING/RECORDING SYSTEMSRef Only

SDAC #1	SPLY	49VU	F4	5 Sec Pwr-	
	BUS #1 SYNC AC	121VU	Q4	Up Test	
	BUS #2 SYNC AC	121VU	Q3	" "	
	BUS #1 VDC	121VU	P3	" "	
	BUS #2 VDC	121VU	P4	" "	
	ESS VDC	49VU	F5	" "	
	ESS AC #1	49VU	F2	" "	
SDAC #2	SPLY	121VU	Q6	5 Sec Pwr-	
	BUS #1 SYNC AC	121VU	Q5	" "	
	BUS #2 SYNC AC	121VU	Q2	" "	
	BUS #1 VDC	121VU	P3	" "	
	BUS #2 VDC	121VU	P4	" "	
	ESS VDC	49VU	F5	" "	
	ESS AC #1	49VU	F3	" "	
RELAY BOX	CAPT	49VU	E8		
	FO	121VU	R7		
CFDS					
CFDIU	SPLY	121VU	J18	60 Sec Pwr-	
	BACK-UP	121VU	J17	Up Test	
	TEST PLUG 1	121VU	J19	" "	
	TEST PLUG 2	121VU	J20	" "	
PRINTER	SPLY	121VU	J21		
AIDS-DMU	DMU & DAR	121VU	K15	40 Sec Pwr-	
				Up Test	
RECORDERS	DFDR	121VU	K16	25 Sec Pwr-	
	FDIU	121VU	K17	Up Test	
	ACCELEROMETERS	121VU	K18		
	CVR CTL	49VU	E13		
	CVR SPLY	49VU	E14		
CLOCK	NORM SPLY	49VU	F11		
(NOTE 4)	STBY SPLY	121VU	N3		
LOUDSPEAKERS	CAPT	49VU	F10		
	FO	121VU	P8		
	HORN SPLY	121VU	P9		

CHAPTE 31: INDICATING/RECORDING SYSTEMSRef Only

EIS	DMC #1	SPLY	49VU	E11	4 Sec Pwr-
		SWTG	49VU	E9	Up Test
	DMC #2	SPLY	121VU	Q8	" "
		SWTG	121VU	R8	" "
	DMC #3	SPLY	121VU	Q9	" "
		SWTG	49VU	E7	" "
		STBY SPLY	49VU	E10	" "
ECAM CTL PNL			49VU	E12	
ECAM DU-UPPR	ECAM DU-LWR	SPLY	49VU	E5	10 Sec Pwr-
		SWTG	49VU	E6	Up Test
ND CAPT	PFD FO	SPLY	121VU	R11	" "
		SWTG	121VU	R10	" "
ND FO	FWS	SPLY	49VU	E3	" "
		SWTG	49VU	E4	" "
MCDU		SPLY	121VU	Q11	" "
		SWTG	121VU	Q12	" "
NOTES:	1) TO BITE FWC & FADEC-USE OVERHEAD FADEC POWER P/Bs				
	2) #1 FWC FAULT-PULL FWC 1&2 CBs				
				RESET #1-WAIT 1 MIN	
				RESET #2	
	3) FDIU FAULT-MEL DFDR 31-30-02 C1 APPLIES (FDIU IS PART OF DFDR SYS)				
	4) CLOCK PROBLEMS NORMALLY RESET VIA CFIDIU SUPPLY CB (J18)				
	5) PRINTER WILL NOT STOP PRINTING-PULL K15 (AIDS/DMU)				
	6) DMC 1(2,3) FAULTS-				
	A) "EIS DMC 1(2,3) RESET:				
			49VU E11 EIS DMC 1 SPLY (SYS 1)		
			121VU Q8 EIS DMC 2 SPLY (SYS 2)		
			121VU Q9 EIS DMC 3 SPLY (SYS 3)		
			49VU E10 EIS DMC 3 STBY SPLY (SYS 3)		
	B) DMCs WILL NOT SW-RESET:				
			49VU E9 EIS DMC 1 SWTG (SYS 1)		
			121VU R8 EIS DMC 2 SWTG (SYS 2)		
			49VU E7 EIS DMC 3 SWTG (SYS 3)		
	7) UNABLE TO SW DU: RESET APPLICABLE SWTG CB				
	8) DISPLAY UNIT -DIAGONAL LINE				
			SELECT DMC3		

CHAPTER 32: LANDING GEAR

			<u>Ref Only</u>	
LGCIU	SYS #1	49VU	C9	1 Sec Pwr-
	SYS #2	121VU	Q35	Up Test
	SYS 1 GND SPLY	121VU	Q34	
BRAKE/STEERING				
BSCU SYS #1	IND & SPLY	121VU	M33	
	CTL	121VU	M34	
BSCU SYS #2	CTL	121VU	M35	
	SPLY	121VU	M36	
DO NOT RESET IN FLT: POSSIBLE LOSS OF ANTI-SKID PROTECTION AT TOUCH DOWN!				
PARK BRAKE CTL	NORM	121VU	N36	
	STBY	121VU	N37	
YELLOW BRAKE	PSI IND	49VU	C10	
BRAKE FAN	CTL	121VU	M32	
	WHL 1&2	121VU	L32	
	WHL 3&4	121VU	L35	
BRAKE TEMP	DET UNIT	121VU	M37	

CHAPTER 32: LANDING GEAR**Ref Only**

NOTES: 1) T/O WARNING CONFIG HORN WILL SOUND WHEN BTMU IS ON MEL. T/O NOT ALLOWED WITH HOT BRAKES. MEL REQUIRES REMOVING CANNON PLUG FOR AFFECTED WHEEL BTMU ERROEONS INDICATIONS ARE EXTREME HI TEMPS OR AMBER XXXs.

2) IF LGCIU MESSAGE IS LATCHED-RESET FWC AFTER LGCIU

3) BSCU-NOSE WHEEL STEERING PROBLEMS

A) CYCLE NOSE WHEEL STEERING SW

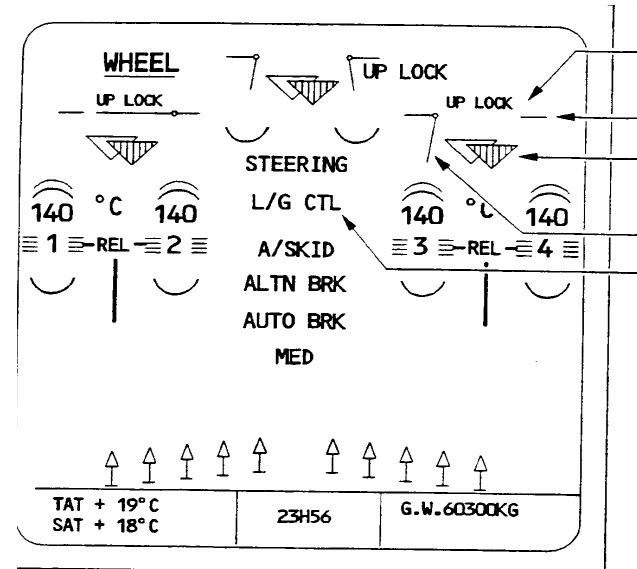
B) IF NOSE WHEEL STEERING SW DOES NOT FIX TRY TO RECYCLE CBs

4) BSCU FAULTS-IF A/C NOT MOVING

TURN NWS SW AND ANTI-SKID SW OFF THEN ON.

IF NO HELP RESET BSCU CBs

5) LGCIU FAULTS-ONLY LGCIU 1 POWERS REMOTE PANEL
(STBY INDICATIONS)



CHAPTER 33: LIGHTS

Ref Only			
WING/ENG SCAN	LEFT	122VU	W2
	RIGHT	122VU	W3
RUNWAY TURN-OFF	LEFT	122VU	W6
	RIGHT	122VU	W5
TAXI & T/O	T/O	122VU	W7
	TAXI	122VU	W8
	CTL	122VU	W9
LOGO	RIGHT	122VU	V2
	LEFT	122VU	V3
WING STROBE		122VU	V5
ANTI-COLL BEACON	LOWER	122VU	U3
	UPPER	122VU	U6
NAV LITE	NAV (1)/ LOGO LT	122VU	T3
	(NAV 2/LOGO LT)	122VU	T2
		(604-5,38-9,42,47-62,801-10,12-22)	
LANDING	L SPLY	122VU	T4
	CTL	122VU	T5
	R SPLY	122VU	T6
	CTL	122VU	T7
PAX READING		2000VU	G2
		2000VU	G3
		2000VU	G4
		2000VU	G5
		2000VU	G6
		2000VU	G7
EMER CABIN	MAIN ON/ARM	49VU	H5
	EXIT SIGNS	49VU	H6
	LAVS	49VU	H7
	CAB EMER LITE	122VU	V7
COCKPIT	DOME SRVCE	122VU	Y6
	DOME ESS	49VU	H8
FLOOD	CAPT	122VU	Z5
	FO	122VU	Z6
	CNTR	122VU	Z4

NOTES:

- 1) 2000VU LOCATED FWD GALLEY CEILING
- 2) 2001VU LOCATED AFT GALLEY CEILING

CHAPTER 33: LIGHTS

Ref Only			
ANN LT TEST	XFMR BUS 1	122VU	X4
	XFMR BUS 2	122VU	X5
	XFMR ESS SHEDBL	49VU	H3
	XFMR ESS EMER STAT	122VU	X3
	TEST BOARD SPLY	122VU	X6
INST LT	OVERHEAD	122VU	Y3
	PNL & PED	122VU	Y4
	GLARESHIELD	122VU	Y5
STBY COMPASS	(ICE &) STBY COMP LT	49VU	H4
AVIONICS COMP	DOME	122VU	Z7
	OUTLET	122VU	Z8
	OUTLET	122VU	Z9
			28VDC
			115VAC
WHEEL WELL	DOME	122VU	X8
	OUTLET	122VU	X7
CARGO COMP	FWD	2000VU	B4
	AFT	2000VU	B5
	LOADING	2000VU	B6
MISC	APU COMP	2001VU	E8
	HELL HOLE (SEC 19)	2001VU	E7
	AIR COND OUTLET	2000VU	B8
CABIN LITE PWR			
WINDOW	FWD	2000VU	H1
		2000VU	H2
	AFT	2000VU	H3
		2000VU	H4
CEILING	FWD	2000VU	H5
		2000VU	H6
	AFT	2000VU	H7
		2000VU	H8
CABIN ENTRY			
		2000VU	J4
ATTND WORK			
		2000VU	J5
LAV OCCUPIED	FWD	2000VU	C8
	AFT	2001VU	C7
CEILING		2000VU	1LQ

CHAPTER 34: NAVIGATION SYSTEMS

				<u>Ref Only</u>
ADIRU 1 (NOTE 1)	ADIRU 1	49VU	F6	115 VAC 5 Sec Pwr-
	ADIRU 1	105VU	C2	28VDC Up Test
	AOA	49VU	F7	26 VAC For ADIRUs
ADIRU 2	ADIRU 2	121VU	N6 (N7)	(605,19-28,38-42,47-51)
	ADIRU 2	121VU	N4 (N5)	(605,19-28,38-42,47-51)
	AOA	121VU	N8 (N9)	(605,19-28,38-42,47-51)
ADIRU 3	PWR SHED	121VU	N10(N11)	(605,19-28,38-42,47-51)
	ADIRU 3	121VU	N5 (N6)	(605,19-28,38-42,47-51)
	ADIRU 3	121VU	N3 (N4)	(605,19-28,38-42,47-51)
	AOA	121VU	N7 (N8)	(605,19-28,38-42,47-51)
	SWTG SPLY	121VU	N9(N10)	(605,19-28,38-42,47-51)
ADF	SWTG SPLY	49VU	F9	
	ADF 1	49VU	H14	2 Sec Pwr-Up Test
	(ADF 2)	(121VU)	(K2)	(604-5,18, 20-39,42-51)
	(RMI)	(121VU)	(K4)	(640-41)
DME	DME/RMI	49VU	F13	
	DME 1	49VU	G14	
	DME 2	121VU	K6	
ATC	ATC 1	49VU	G11	
	ATC 2	121VU	K7	
VOR	VOR 1	49VU	G13	
	VOR 2	121VU	K8	
RAD ALT	R/A 1	121VU	K11	
	R/A 2	121VU	K12	
ILS	ILS 1	49VU	G12	
A/C 604-Reset MMRs	ILS 2	121VU	K9	
STBY	HORIZ IND	49VU	F12	
	ALTM	49VU	F14	
WX RADAR (618,20-37,43-46)	R/T 1	121VU	K13	30 SEC Pwr-
(NOTE 5)	(R/T 2)	(121VU)	(K14)	Up Test
TCAS		121VU	K10	5 Sec Pwr-Up Test
GPWS (NOTE 3)		121VU	P7	115 VAC 2 Sec Pwr-
MULTI-MODE RXs	MMR1	49VU	G12	For A/C 604,47-51
(NOTE 6,7)	MMR2	121VU	L7(K9)	604 (647-51)

CHAPTER 34: NAVIGATION SYSTEMS

		<u>Ref Only</u>
NOTES: 1) IF ALL 3 ADIRUs WILL NOT TAKE ALIGN AFTER ENG START/	PWR XFER-TRY:	A) MAN REALIGN- IF NO HELP AFTER 2 ATTEMPTS
		B) PULL ADIRU #1,2,3 CBs FOR 30 SEC WITH RESET/REALIGN
2) WINDSHEAR FAULT-RESET FACs ON OVERHEAD		
3) GPWS INOP: A) NAV RELATED-RESET #1 ILS (OK IN FLT) B) RESET RAD ALT #1		
4) AUTO TUNE INOP: A) TRY DIFF STA-POSS BAD NAV DATA B) ON RMP-VERIFY THAT THE "NAV ON" SW IS OFF (PLASTIC GUARDED SW)		
5) WX RADAR MAY BE LOST IF AEVC COMP HAS FAILED AND BOTH SKIN VLVs IN OVERBOARD		
6) MMRs-POST SB 34-1147 FOR A/C 647-51		
7) 'GPS Primary' IN WHITE IS NORMAL OPERATION THIS IS STATING THAT GPS IS THE PRIMARY MODE OF OPERATION. THE 'CLEAR' BUTTON ON THE MCDU WILL ERASE THIS MESSAGE.		

CHAPTER 35: OXYGENRef Only

CREW 02	CREW SPLY	49VU	C1
PAX 02	CTL & WARN	49VU	C2
		49VU	C3
		49VU	C4
ACTUATION		49VU	C5
		49VU	C6
		49VU	C7
		49VU	C8

NOTES: CREW O2 LO PRESS MSG- VERIFY THE O2 SUPPLY SW IS ON
AND BOTTLE IS TURNED ON. (SW IS ON OVERHEAD PANEL
AND O2 BOTTLE IN FWD LEFT EQUIPMENT BAY)

CHAPTER 36: PNEUMATIC SYSTEM

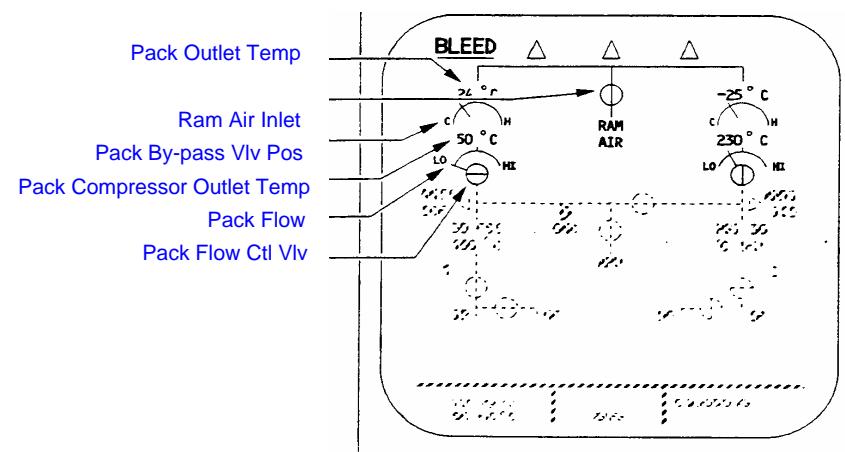
BLEED (ENG 1)	BMC 1 MONG	49VU	D11	Ref Only
	CONT	49VU	D12	10 Sec Pwr-
BLEED (ENG 2)	BMC 2 MONG	122VU	Z22	Up Test
	CONT	122VU	Z23	10 Sec Pwr-
X-FEED VLV	NORM	122VU	Z20	Up Test
	BATT	122VU	Z21	

NOTES: 1) AIR BLEED MX STATUS MESSAGE

- A) BMC RESET-IF NO HELP
- B) APU AIR ON/OFF/ON-IF NO HELP
- C) CK FOR FAULTS (BMC/APU SELF TEST)
- D) THEN TRY FWC 1 & 2

2) IT IS NOT POSSIBLE TO HAVE AN ERRONEOUS AIR BLEED WING LEAK

MESSAGE. IF ECAM MESSAGE IS DISPLAYED THEN TWO INDEPENDENT LOOPS DETECTED THE LEAK AND TRANSMITTED THEIR RESPECTIVE SIGNALS TO TWO INDEPENDENT BMCS. BOTH BMCS MUST WITNESS THE LEAK BEFORE THE MESSAGE IS DISPLAYED.

CHAPTER 36: PNEUMATIC SYSTEM**Ref Only**

CHAPTER 38: WATER AND WASTE			
			<u>Ref Only</u>
WATER	WATER SYS	2001VU	1MP
	WATER SYS	2000VU	1MA
HOT H2O	FWD (LAV)	2000VU	1MB 7MB
	AFT (LAV)	2001VU	2MB 9MB
DRAIN MAST	FWD	2000VU	1DU
	AFT	2001VU	11DU
WATER SYS	ICE PROT-HTR CTL	2000VU	1DW 2DW
LAVS	FWD FLUSH	2001VU	32MG
	R AFT FLUSH	2001VU	34MG
	L AFT FLUSH	2001VU	39MG
	VACUUM GEN	2001VU	33MG
	VACUUM SYS	2001VU	35MG
LAV/GALLEY VENT			
EXTRACT FAN	SPLY CTL	122VU	U19 U21

CHAPTER 38: WATER AND WASTE			
			<u>Ref Only</u>
NOTES:	1) 2000VU LOCATED FWD GALLEY CEILING		
	2) 2001VU LOCATED AFT GALLEY CEILING		
3)	LAVS NOT FLUSHING LAV NOT PLUGGED CAUTION LITE ILLUM ON FAP A) PULL VACUUM SYS CB 35MG B) PUSH BUTTON TO CYCLE FLUSH VALVE C) RESET CB 35MG.		
4)	LAV NOT FLUSHING A) PULL INDIVIDUAL LAV CB (2001VU) B) FLUSH LAV C) RESET CB		
5)	LAV DOOR REMOVED CDL 52-01 REMOVE AND STOW DOOR SW C/P AND WIRE PANEL ACCESS HANDLES CLOSED		
6)	GALLEY H2O SYS NOISE-RESET CK VALVE A) REMOVE AFT GALLEY RT COFFEE MAKER B) PLACE FINGER TIP OVER DRAIN TUBE (THIS RESETS THE CK VLV)		

CHAPTER 49: AUXILIARY POWER UNIT**Ref Only**

CONTROL	ECB SPLY	121VU	L41	APU STOPPED,
	APU SPLY	121VU	L42	MASTER SW ON
				3 Sec Pwr-Up Test

FUEL

LP VLV	SPLY	121VU	M39
	CTL	121VU	M40
	STBY	121VU	M41
	NORM (FIRE)	121VU	M42
PUMP	CTL	121VU	M38
FUEL BLOW-OFF PUMP	121VU	M39	
	49VU		B14

FIRE & OVERHEAT

DET	LOOP A	121VU	L43
	LOOP B	121VU	L44
EXTING	SQUIB A	121VU	L38
	SQUIB B	121VU	L39

NOTES: 1) AFTER SHUT DOWN OF APU WITH APU MASTER SW OFF-CLASS I FAULT "APU AUTO (EMER) SHUT DOWN"
NO ASSOC FAULTS: SDAC

2) **APU BLEED FAULTS-SHUT DOWN APU THEN RESET:**

VU121 L41 ECB SPLY
VU121 L42 APU CTL

3) **APU WILL NOT SHUT DOWN-RESET VU121 L42 APU CTL.**
IF NO HELP: OPEN VU121 L41 ECB SPLY

4) **APU ELEC NO VOLTS OR FREQS:** SELECT APU ELEC OFF
 RESET VU122 Y25 ELEC APU GCU

CFDS **APU MASTER SW MUST BE 'ON' TO BITE CFDS**

SYS REPORT/TEST-NEXT PAGE-AIR BLEED

- APU-SYS SELF TEST
- APU DATA/OIL (GIVES HRS,CYCs
AND LEVEL "OK")
- NEXT PAGE-SHUT DOWNS(GIVES
SHUT DOWNS, EX: OVERSPEED)

CHAPTER 52: DOORS

Ref Only

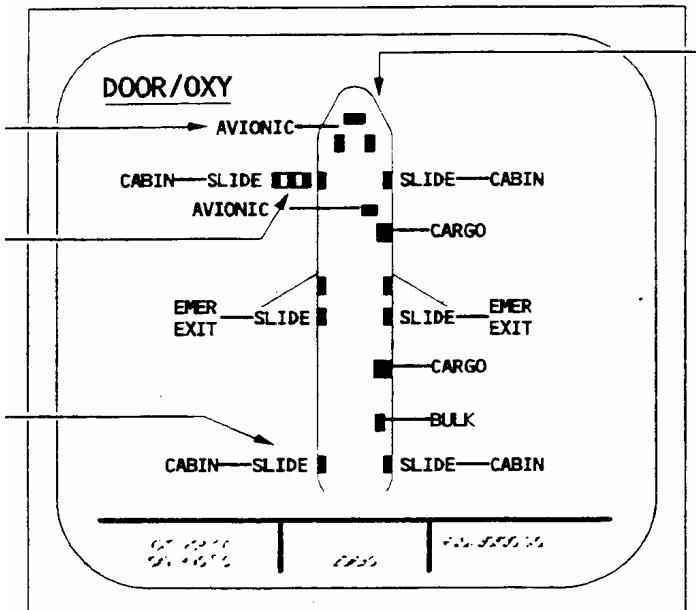
DOOR DET PAX	121VU	P5	(**THRU SDAC)
DOOR DET AVNCS	121VU	P2	(**THRU SDAC)
EIS SLIDES ARM & WARN GND	121VU	P10	
CARGO DOOR CTL	122VU	T12	

NOTES:

RISIDUAL PRESS WARN ON CABIN DOORS

TFU 52.70.00.002. FAULT BY PRESS SW

PN 1266-100. REF MEL 25-60-06.



CHAPTER 70: POWER PLANT

ENG 1 FADEC A/EIU 1 49VU A4 2 SEC Pwr-
FADEC B/EIU 1 121VU R41 Up Test

******SHUT DOWN ENG PRIOR TO RESET******

ENG 2 FADEC A/EIU 2 121VU Q40
FADEC B/EIU 2 49VU A5

******SHUT DOWN ENG PRIOR TO RESET******

EVMU E1 & E2 121VU R44

NOTES: ALL ENG ECAM WARNINGS ARE FOUND IN CAATS CHAP 77

1) DUAL ENG 1 (2) EIU FAULTS

- A) DO FADEC 1/2 A/B BITES
- B) SELECT START CYCLE ROTARY SW FROM NORM TO CRANK
- C) WAIT 15 SEC
- D) RETURN TO NORM-WAIT 5 MIN
- E) THEN PULL ENG 1 & 2 OIL PRESS CBs
- F) RESET AFTER 5 SECs

*****ENGINES MAY NOT START WITH EITHER EIU MSG LATCHED*****

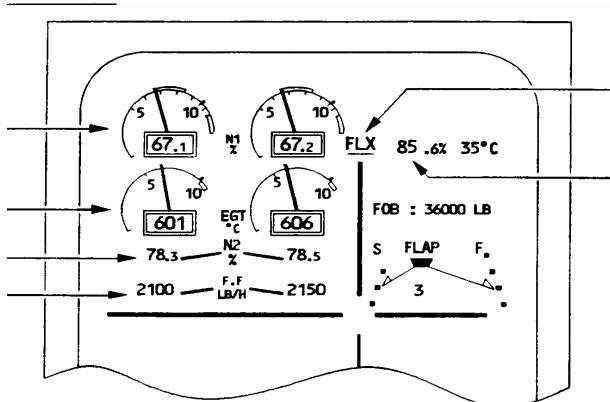
2) FADEC ALT FAULT-DEDICATED ALTERNATOR OR EEC FAIL

RETURN A/C TO GATE

**3) ENG 1(2) SENSOR FAULT-RETURN TO GATE: A) CLEAN SENSOR LINE
B) CLEAN SCREEN**

If problem persists

C) CHANGE EEC

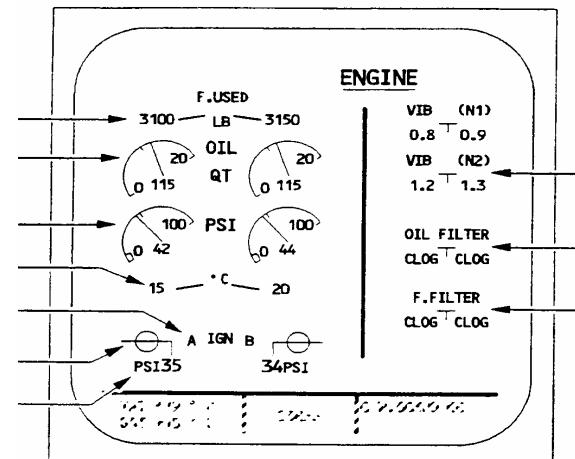
**CHAPTER 70: POWER PLANT**

Ref Only

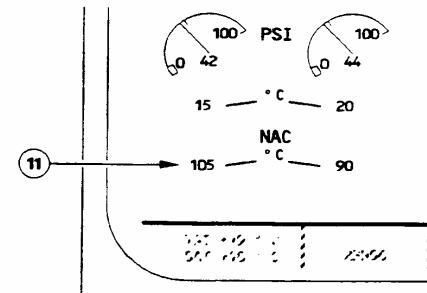
**NOTES: 4) ON -5 MOTORS, IF HUNG START (W/O OBVIOUS MSG)-DISCONNECT
FUEL TEMP SENSOR C/P, START ENG AND RECONNECT
5) ENG 1 (2) AIR HEAT EXCHANGER FAULT-**

CFDS **1) USE OVERHEAD FADEC POWER UP P/Bs TO
PERFORM BITE (AFTER ENG SHUT DOWN)**
2) SYS REP/TEST- NEXT PAGE- ENG-EIU 1(2)
FADEC 1(2)A(B)
EVMU

SECONDARY PARAMETERS-START CONFIGURATION



IT CONFIGURATION



CHAPTER 74: IGNITION**Ref Only**

SYS A	E1 & E2	49VU	A3
	E1 BAT	121VU	P39
	E2 BAT	121VU	P40
SYS B	E1	121VU	P41
	E2	121VU	P42

NOTE: **ENG 1(2)** IGN FAULT- IGNITER SYSTEM FAULTS DURING ENG START.
ENG AUTO-SHUTDOWN
MAN RESTART
DPI FAILED IGN SYS.

NOTES: 1) DUAL ENG 1 (2) EIU FAULTS

- A) DO FADEC 1/2 A/B BITES
- B) SELECT START CYCLE ROTARY SW FROM NORM TO CRANK
- C) WAIT 15 SEC
- D) RETURN TO NORM-WAIT 5 MIN
- E) THEN PULL ENG 1 & 2 OIL PRESS CBs
- F) RESET AFTER 5 SECs

ENGINES MAY NOT START WITH EITHER EIU MSG LATCHED

2) "FADEC ALT" FAULT-DEDICATED ALTERNATOR OR EEC FAIL

RETURN A/C TO GATE

3) ENG 1(2) SENSOR FAULT-RETURN TO GATE: A) CLEAN SENSOR LINE

- B) CLEAN SCREEN
- If problem persists
- C) CHANGE EEC

4) ON -5 MOTORS, IF HUNG START (W/O OBVIOUS MSG)-DISCONNECT

FUEL TEMP SENSOR C/P, START ENG AND RECONNECT

CHAPTER 79: ENGINE OILRef Only

ENG 1 QTY 121VU N39

PRESS 121VU N40

ENG 2 QTY 121VU N41

PRESS 121VU N42



With special thanks to all supporter,

Bruno Mecha

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