

FALCON

EMERGENCY/ABNORMAL PROCEDURES



Revision 9.1

PILOT CHECKLIST

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INSERT LATEST REVISED PAGES, DESTROY SUPERSEDED PAGES LIST OF EFFECTIVE PAGES

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These are suggested procedures only and in no way supersede current procedures outlined in the FAA-approved Flight Manual and any revisions thereto. In the case of conflict, the Flight Manual takes precedence.

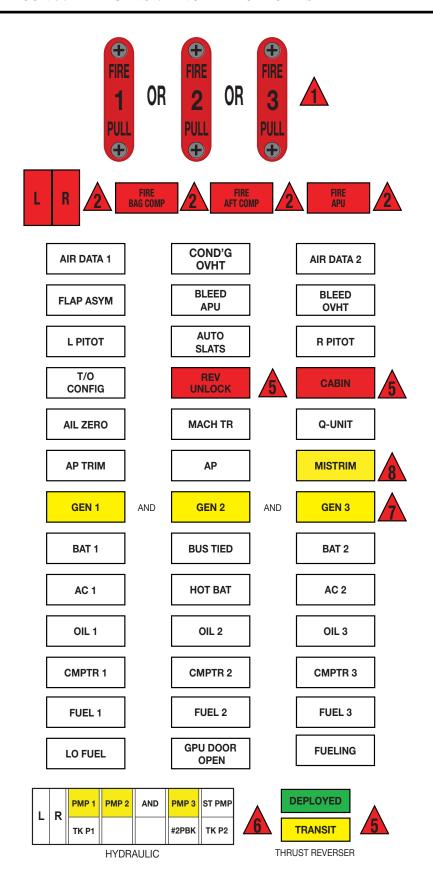


EMERGENCY PROCEDURES

Compliance with the order prescribed for application of these procedures is recommended.

- PHASE I These items require immediate action for the safety of flight. It is recommended to perform them from memory.
- PHASE II These items shall be completed only after the PHASE I items have been completed by the checklist.
- PHASE III These items shall be completed as soon as time permits.

AURAL WARNINGS shall be identified before silencing. Once the mafunction has been identified, silencing the aural warning will enable better coordination in performing the emergency procedure.



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EMERGENCY PROCEDURES ENGINE FIRE IN FLIGHT 1 ENGINE FIRE ON GROUND TAIL PIPE FIRE SMOKE IN THE BAGGAGE COMPARTMENT 2 APU FIRE FIRE AND SMOKE AFT COMPARTMENT FIRE WHEEL WELL OVERHEAT **ELECTRICAL SMOKE OR FIRE** 3 AIR CONDITIONING SMOKE 4 SMOKE REMOVAL RAPID DEPRESSURIZATION **PRESSURIZATION EMERGENCY DESCENT** 5 THRUST REVERSER DEPLOYMENT IN FLIGHT LOSS OF BOTH **HYDRAULIC** 6 SYSTEMS **SYSTEMS** UNRELIABLE AIRSPEEDS AT HIGH ALTITUDE FAILURE OF ALL 7 THREE GENERATORS AUTOPILOT NOSEDOWN HARDOVER HORIZONTAL TRIM STABILIZER RUNWAY 8 AILERON TRIM RUNAWAY **RUDDER TRIM RUNWAY** ALL ENGINES OUT CONDITION 9 IN FLIGHT RELIGHT ENVELOPE **ENGINES** APPROACH AND LANDING WITH TWO **INOPERATIVE** ENGINES INOPERATIVE 10 **GO-AROUND WITH TWO ENGINES INOPERATIVE** FORCED LANDING 11 DITCHING **BOMB ON BOARD** 12 **EMERGENCY EMERGENCY EVACUATION** CONDITIONS 13 VOLCANIC ASH ENCOUNTER STALL RECOVERY 14 UNUSUAL ATTITUDE RECOVERY - NOSE UP UNUSUAL ATTITUDE RECOVERY - NOSE DOWN 15 PILOT INCAPACITATION Revision 9.0 E-1

1

FIRE AND SMOKE

ENGINE FIRE IN FLIGHT



Phase I

1. Power LeverCUTOFF
2. FIRE PULL handlePULL
3. AirspeedBELOW 250 KNOTS
4. Fire Extinguisher SwitchPOSITION 1
If the fire persists:
5. Fire Extinguisher SwitchPOSITION 2
Phase II
Complete shutdown of engine:
6. Booster PumpOFF
7. Generator SwitchOFF
*NOTE
In icing conditions, the #1 or #2 engine anti-ice system should be operated even with the #1 or #2 engine shutdown.
*8. Engine Anti-iceOFF
9. HP Bleed (and PRV in the case of #2 Engine) OFF
If #3 engine is shutdown:
10. Bus Tie SwitchTIED
11. Hydraulic Standby PumpON (AS REQUIRED)
12. Land as soon as possible.
13. Fuel Managementas required
Consult One Engine Inoperative Approach/Landing/Go-Around Procedures, Yellow Tab 6, page A-12 or Approach And Landing With Two Engines Inoperative, Red Tab 10, pages E-24 and E-25.

1

ENGINE FIRE ON GROUND



Phase I

 Power Lever 	r	IDLE
2. Airplane		STOP
3. Parking Brak	ke	FIRST DETENT
4. Power lever		CUT OFF
5. FIRE PULL I	nandle	PULLED
6. Fire Extingui	isher ENG	POSITION 1
7. Fire Extingui	isher ENG	POSITION 2
8. EMERGENC	CY EVACUATION	Do
Consult Red Tab 1	2 page E-29.	

TAIL PIPE FIRE

There will be no warning or alarm in the cockpit (the turbine area is designed to withstand very high temperatures);

Detection and reporting mainly rely on ground crew or ATC.

Phase I

- 3. Start Pushbutton......Held DEPRESSED FOR 15 SECONDS

Phase II

If the fire is reported out

4. Start selector switch......GRD START

If the fire cannot be contained before the end of the motoring sequence:

5. EMERGENCY EVACUATIONDO
Consult Red Tab 12 page E-29.

SMOKE IN THE BAGGAGE COMPARTMENT



+ AURAL WARNING

2

D	h	2	•	_	1
_	•	-	-	-	

1.	Bag Air Switch	OFF
2.	Bag Compartment Fire Extinguisher	POSITION 1
3.	Omega	OFF

Phase II

If INS malfunction(s) observed:

- 4. INS......OFF
- 5. LAND AS SOON AS POSSIBLE.

NOTE

Aircraft w/Aft Avionics Cooling, Crew Bleed Air Switch - OFF.

APU FIRE



+ AURAL WARNING

Phase I

1.	APU Master	PUSHED
2.	APU Fire Extinguisher Switch	POSITION 1

Phase II

3.	APU Bleed	OFF
4.	APU Generator Switch	OFF
If the	fire persists:	

5. #2 Engine Fire Handle.....PULL

Complete shutdown of #2 engine:

6.	Power Lever	CUTOFF
7.	Booster Pump	OFF
8.	Generator Switch	OFF
9.	Engine Anti-ice	OFF
10.	HP Bleed Switch	OFF
11.	PRV Switch	OFF

Evacuate the aircraft.

Consult Emergency Evacuation procedure Red Tab 12 page E-29.



AFT COMPARTMENT FIRE



+ AURAL WARNING

NOTE

A pause should be made after each operation to check resulting effects.

Phase I

1. HP Bleed and PRV (All Switches)	OFF
2. #2 Engine Anti-ice Switch	OFF
3. Battery Switches	BOTH OFF
4. Hydraulic Standby Pump Switch	OFF
If the fire persists:	
5. AFT Compartment Fire Extinguisher Switch	POSITION 1
Phase II	
If the fire persists:	
6. ITT (All Three Engines)	CROSS-CHECK
7. HOT Engine	IDLE
8. LAND AS SOON AS POSSIBLE.	
Once the fire is extinguished, all circuits in operating coactivated to continue flight to nearest landing airport.	ondition may be re-
WHEEL WELL OVERHEAT L AND/OR R	+ AURAL WARNING
1. Airspeed190	KNOTS OR LESS

CAUTION

Keep the landing gear extended until the WHEEL

out, but not less than 10 minutes.

2. Landing Gear......DOWN

AND/OR R

lights go

The overheat condition may have caused the tires to deflate. Make a shallow final approach and as soft a landing as possible.

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ELECTRICAL SMOKE OR FIRE

Indications: Smoke and unusual odors

Phase 1

1. Crew Oxygen MasksDONNED-100% + EMERGENC
2. Smoke GogglesDONNED-Vent valve ope
3. Microphone SelectorMASK—Teste
4. Light Pushbutton
NLY IF NO FLAME IN CABIN:
5. PASSENGER OXYGEN Controller OVERRID
6. Passenger Masks
hase II
7. Crew Air Gaspers OPE
8. E. BATT Switch OF
9. #2 Battery Switch OF
10. #3 Generator SwitchOF
11. Bus Tie SwitchFLT NORMA
12. Crew Temp ControllerMANUAL/COL

If Smoke Persists:

13. #2 Battery Switch ON

14. #3 Generator Switch...... ON

15. #1 Battery SwitchOFF

16. #1 Generator Switch......OFF

17. #2 Generator Switch......OFF

18. Passenger Temp Controller MANUAL/COLD

19. Cabin Pressure Selector Switch...... MANUAL

20. Manual Pressurization KnobUP

21. Cabin Altitude MONITOR

If Smoke Disappears:

Keep the faulty equipment off.

If Smoke Disappears:

Keep the faulty equipment off.

If the fire IS verified to be out:

22. Continue the flight.

If Smoke Continues:

Apply the Smoke Removal checklist; Tab 4, page E-9.

If the fire is NOT verified to be out:

22. Land as soon as possible. See Key Bus Item/Listing; Blue Tab 3, page QR-4.

AIR CONDITIONING SMOKE

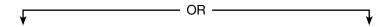
Indication: Smoke at the Air Conditioning outlets

Ph	ase	ı

1.	Crew Oxygen Masks	. DONNED—100% + EMERGENCY
2.	Smoke Goggles	DONNED-Vent valve open
3.	Microphone Selector	MASK—Tested
4.	Light Pushbutton	ON
5.	PASSENGER OXYGEN Controlle	rOVERRIDE
6.	Passenger Masks	DONNED-Checked

Phase II

7.	Crew Air Gaspers	OPEN
8.	Bleed-air Isolation Knob	ISOLATION
9.	Crew Bleed-air Switch	OFF
10.	PRV Switch	OFF
11.	Temperature Controllers (both)	MANUAL/COLD



If Smoke Persists:

If Smoke Disappears:

12. Crew Bleed
Air Switch.....ON

Continue the flight with the faulty BLEED AIR system isolated.

13. Cabin Bleed
Air Switch...... OFF

If Smoke Continues:

14. Crew Bleed
Air Switch.....OFF
Apply the Smoke Removal checklist;
Tab 4, page E-9.

15. Descent.....Initiate



SMOKE REMOVAL

Phase I

1. Crew Oxygen Masks	DONNED-100% + EMERGENCY
2. Smoke Goggles	DONNED-Vent valve open
3. Microphone Selector	MASK-Tested
4. Light Pushbutton	ON
5. Crew air gaspers	OPEN
ONLY IF NO FLAME IN CABIN:	
6. PASSENGER OXYGEN Controlle	erOVERRIDE
7. Passenger Masks	DONNED-Checked
8. Passenger cabin air gaspers	OPEN
Phase II	

9. Temperature Controllers MANUAL/COLD Descend to below 12,000 feet, or to a safe altitude for the route flown.

CAUTION

The following procedure must not be applied if flames are present in the cabin or cockpit.

At 12,000 feet or below:

10.	Cabin Pressurization Selector	.(A BUS PWR) DUMP
11.	Manual Pressurization Knob	UP
At 18	0 knots or less:	
12.	DV Window	OPEN

Phase III

If smoke persists:

13. LAND AS SOON AS POSSIBLE.

PRESSURIZATION

RAPID DEPRESSURIZATION



+ AURAL WARNING

Phase I

EMERGENCY DESCENT

CAUTION

This procedure assumes structural integrity of the aircraft. If structural integrity is questioned, limit airspeed to lowest practical value, and avoid high maneuvering loads.

Phase

1.	Autopilot	DISENGAGE
2.	Power Levers	IDLE
3.	Airbrakes	POSITION #2
4.	Descent Airspeed	. V _{MO} M _{MO} (SMOOTH AIR)
5.	Transponder	MAYDAY CODE "7700"



SYSTEMS

THRUST REVERSER DEPLOYMENT IN FLIGHT



AND POSSIBLY



Pitch down moment.
Abnormal noise and buffeting.

Phase I

1. #2 Power Lever	IDLE
2. T/R Emergency Stow Switch	STOW
3. Airspeed	230 KNOTS OR LESS

Phase II

If the thrust reverser stows, continue the flight with the EMERG/STOW switch in the STOW position.

If the thrust reverser remains deployed:

- T/R Emergency Stow Switch......MAINTAIN IN STOW POSITION
 With thrust reverser deployed:
 - 5. Land as soon as possible.

NOTE

The Actuator ensures stowing of the Reverser up to IAS = 180 KT.

NOTE

The drag resulting from an idle #2 engine with the thrust reverser deployed adversely affects the performance characteristics. The engine should therefore be shutdown whenever necessary.

Engine Shutdown:

2.	Booster PumpOFF
3.	Generator SwitchOFF
	NOTE
	In icing conditions, operate the #2 engine anti-ice even though the #2 engine is inoperative.
4	Engine Anti-iceOFF
5.	HP BleedOFF
6.	PRVOFF

1. Power Lever (Idle for 1 minute if possible)CUTOFF

Consult One Engine Inoperative Approach/Landing/Go-Around Procedures, Yellow Tab 6, page A-12 or Approach And Landing With Two Engines Inoperative, Red Tab 10, pages E-24 and E-25.

7. Fire Handle......PULL

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LOSS OF BOTH HYDRAULIC SYSTEMS

PMP 1

PMP 2

PMP 3

AND POSSIBLY

WITH BOTH INDICATORS
HYDRAULIC PRESSURE DROP AND
FLUID LEVELS IN THE RED

Q UNIT

Phase I

1. Autopilot and Yaw Damper......OFF

2. Airspeed......260 KNOTS/0.76 M OR LESS

CAUTION

The hydraulic power off condition results in greater pilot forces, and landing requires increased caution because directional control is available mainly by rudder and differential forward thrust.

Phase II

Avoid high pitch attitudes and zones of turbulence.

Landing:

3. Slat/Flap HandleLEFT IN POSITION

NOTE

Without pressure in the two hydraulic systems the Slat/flap handle must not be moved.

4. Approach Speed......BUGS SET

Clean.....VREF+ 30 KNOTS

NOTE

In the situation where the high lift devices are already extended, observe the following approach speeds:

 Slats Only
 VREF + 20 KNOTS

 Slats + Flaps 20
 VREF + 15 KNOTS

 Slats + Flaps 48
 VREF + 10 KNOTS

5. Landing Gear FREE FALL EXTENSION

Consult Landing Gear Emergency Extension, Abnormal section; Tab 11, page A-22.

6. Final Approach Vertical Speed300 FT/MIN

NOTE

With no antiskid, add 30% to L.D./L.F.L. With no slats/flaps, add 3000/5000 feet. With no airbrakes, add 600/1000 feet. Check AFM (P.5.50.8) whether speed VREF +30 KT is less than VMBE. (See Tab 2, QR-3: Landing Distance/ Landing Field Length Additives.)

After touchdown:

7. Thrust Reverse...... FULL POWER

8. Parking Brake*INTERMEDIATE DETENT *Be cautious and avoid cycling pressure on and off.



UNRELIABLE AIRSPEEDS AT HIGH ALTITUDE

WARNING - Frozen or abnormal pilot and copilot IAS / MI indications and possibly:

- AIRSPEED INDICATORS PERFORM LIKE ALTIMETERS (airspeed decreasing in descent and increasing in climb),
- Illumination of one or both following lights:

Q UNIT

AUTO SLATS

- VMO / MMO audio warning sounds,
- IAS miscompare flag on EADI (if any),
- AP disengagement,
- Disagreement with stand-by IAS / MI indications,
- In cruise / level flight: unusual pitch trim activity.

PHASE I

- 1. APDISENGAGED
- 2. YD......DISENGAGED
- Avoid large displacements and rapid movements of control surfaces.
- 4. Fly wings level.
- Stabilize airplane altitude using, if necessary, the stand-by instrument altitude indication.
 - Pitch attitude...... Between 1° and 4° nose up
 - Engine power Smoothly fully forward

WARNING

INAPPROPRIATE FLIGHT DIRECTOR GUIDANCE MAY BE ACTIVATED.

DO NOT FOLLOW CORRESPONDING FD.

CAUTION

Stall aural warning remains reliable.

PHASE II

1. Do not apply SLAT MONITORING SYSTEM procedure (Yellow Tab 10).

CAUTION

Do not re-engage AP or YD before pitot probes unblocking.

LEVEL FLIGHT

Set N1 as indicated in the table below, corresponding to MI = 0.75 (assumed temperature is ISA -10 °C):

Flight Level	Weight	N1	Pitch Attitude
EL 400	24,000 lb	97%	
FL 490	22,000 lb	95%	
FL 450	30,000 lb	97%	
FL 430	22,000 lb	92%	
	38,000 lb	98%	
FL 410	30,000 lb	93%	
	22,000 lb	91%	
	38,000 lb	94%	Between 1 and 4 degrees nose
FL 370	30,000 lb	91%	up
	22,000 lb	90%	- 1-
	38,000 lb	92%	
FL 330	30,000 lb	91%	
	22,000 lb	90%	
	38,000 lb	93%	
FL 310	30,000 lb	91%	
	22,000 lb	91%	

- 2. TCAS: TA ONLY Selected
- 3. Advise ATC that both displayed altitude and XPDR-reported altitude may be unreliable and tightly monitor trajectory of closest airplanes.
- 4. When conditions permit, set N1 corresponding to cruise Mach = 0.75 at current flight altitude and airplane weight, using TAT as reference or standard atmosphere temperature if TAT is not usuable. (Performance Manual 5-05 pages 3 to 7).
- 5. Limit attitude to 4° nose up or less.



CAUTION

VMO / MMO audio warning may be unreliable. If it is certain that the VMO / MMO audio warning is inappropriate, do not modify flight parameters.

If VMO / MMO audio warning sounds:

6. AUDIO WARN A / AUDIO WARN B circuit breakers...... PULLED

CAUTION

All aural warnings (STALL included) are inoperative except TCAS aural warning.

7. After a positive identification of the malfunction, continue the flight while complying with the following procedures for climb and descent phases:

CLIMB

- 1. N1 speedClimb power as per Performance Manual 4-50
- 2. Pitch attitude Between 4° and 5° nose up

If vertical speed drops below 100 ft / min:

3. Airplane.....Level Off

DESCENT

Initiating the descent earlier than scheduled to recover non icing conditions is let to pilot's discretion.

CAUTION

If IAS goes down to 50 kt due to blocked pitot probes, expect loss of airspeed display on both EADI (if any):

- Do not apply PILOT AIR DATA COMPUTER INOPERATIVE procedure.
- Do not apply COPILOT AIR DATA COMPUTER INOPERATIVE procedure.
- Use ADI attitude and stand-by altimeter until pitot probes unblocking.

Start selector switches (all 3)	AIR START
ANTI-ICE:	
2. ENG 1 and ENG 3 ANTI-ICE switches	ON
- 30 seconds later:	
ENG 2 ANTI-ICE switch	ON
- 30 seconds later:	
AIRFRAME ANTI-ICE switch	NORMAL
3. N1 speed	See table below

	TAT	Between -30°C and -20°C	Between -20°C and -10°C	Between -10°C and 0°C	0°C and above
Ī	N1	84%	81%	78%	73%

- 4. Airbrake handle......Position 1
- 5. Pitch attitude Between 0° and 2° nose down
- 6. Vertical speed indicator Between -2,000 and -3,000 ft / min

NOTE

- 1 Check airplane altitude frequently on the standby altimeter.
- 2 If prior to the problems, flight was performed at a static temperature lower than the authorized minimum limit (see 1-15-9), descend as soon as possible until air-data indications are back to normal.

STATUS (2 blocked pitot probes):

INOPERATIVE / UNRELIABLE ITEMS	OPERATIVE / RELIABLE ITEMS
Basic fight	parameters
IAS / MI / TAS on both ADI and on stand-by instrument.	IRS Ground Speed in FMS CDU. GPS Ground Speed in FMS CDU.
	Pitch and roll attitude on both ADI.
Pitch and roll attitude on both ADI.	Altitude displayed on both altimeters and stand-by instrument (max error +/- 600 ft). GPS altitude in NZ2000 FMS CDU (if any). VS on both VSI.
SAT, ISA deviation	TAT. Temperature data provided by AFIS / Operational flight plan / Weather briefing.
	Heading and Track.
	Wind data provided by AFIS / Operational flight plan / Weather briefing.
Warı	nings
VMO / MMO audio warning	
Gear aural warning. Stall aural warning if AUDIO WARN C/Bs pulled	
Flight controls	
Automatic Slats extension.	Stall protection: IGN.
Roll Arthur position inconsistent with actual true flight condition.	Pitch Arthur (Arthur position is based on THS value).
Automatic flight control system	
AP, FD, and YD	
Mach Trim	
Enç	jine
	Engine primary parameters (N1, ITT, N2, FF) and controls.
Airplane	Systems
	All systems controls and displays



NOTE

Descent should cause airspeed and total air temperature to increase thereby facilitating the pitot probes unblocking and a return to correct IAS indication after about 2 minutes.

NOTE

An indicated airspeed increasing in descent is a good evidance of the pitot probes unblocking.

7. After return to unblocked pitot probes situation, wait for 1 more minute then:
- AP and YDAs required
8. AUDIO WARN A / AUDIO WARN B circuit breakers Re-engaged
9. TCASNORMAL - Checked
10. Start selector switches (all 3)NORMAI
11. Airbrake handleAs required
NTI-ICE:
- ANTI-ICE ENG 1 and 3 switchesAs required
- ANTI-ICE ENG 2 switchAs required
- ANTI-ICE AIRFRAME switchAs required

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FAILURE OF ALL THREE GENERATORS

GEN 1 AND
GEN 2 GEN 3

Phase I

1. Bus C and D Switches......OFF

NOTE

Autopilot will disengage.

2. Bus Tie Switch.....FLIGHT NORMAL

3. Generator Switches ATTEMPT RESETS (MAX 2 EACH)

Phase II

If all three generator lights remain illuminated:

Switch off as many systems as possible to reduce the battery load and maintain the current drain as low as possible:

INTERIOR LIGHTS Switches OFF
 EXTERIOR LIGHTS Switches OFF

11. Lighting Rheostat.....FULLY CCW

LAND AS SOON AS POSSIBLE and avoid icing conditions.

CAUTION

The batteries in good condition will provide:

- 40 minutes of operation with an average load of 25 Amp per battery (approximate load after load shedding in non icing conditions).
- 20 minutes of operation with an average load of 50 Amp per battery (approximate load after load shedding in icing conditions).
- If conditions permit, the battery current is reduced by switching off:
 - All three BOOSTER pumps and three XFR pumps.
 - INS and Radio Navigation systems.
 - Windshield heat system.



In icing conditions, it is imperative to keep the following switched on:

- Pilot windshield heating system.
- Engine and wing anti-ice systems

In icing conditions battery life is reduced by one minute for every minute that the systems are on.

NOTE

- The No. 1 Radio Navigation system is operable with battery power supply.
- The flap system, the rudder trim system and the emergency aileron trim system are inoperative (D bus switched off).
- The nose wheel steering system and the normal aileron trim system are inoperative (C bus switched off).
- Flap and nose wheel steering system loss.

AUTOPILOT NOSEDOWN HARDOVER

1. AutopilotDISENGAGE

HORIZONTAL TRIM STABILIZER RUNWAY

WARNING

Audio warning: continuous clacker.

Warning panel: possible amber MISTRIM

Phase I:

- 1. Firmly hold the control column to maintain the desired path while actuating the normal pitch trim.
- 2. Actuate the TAILPLANE EMERG switch to trim the airplane.

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).

AILERON TRIM RUNAWAY

NOTE 8

> With autopilot engaged, MISTRIM caution light is illuminated. Nevertheless, the flight-crew might not detect the failure before the trim reaches full travel as both yaw damper and autopilot counteract the roll.

- 1. Aileron trim...... Actuate in the opposite direction
- 2. Control wheel......Stop the roll
- 3. TRIM AILERON circuit breakerPull
- 4. EMERG AILERON trim.....Trim the airplane

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).

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RUDDER TRIM RUNWAY

NOTE

With autopilot engaged, the flight-crew might not detect the failure before the trim reaches full travel as both yaw damper and autopilot counteract the roll.

1.	Rudder trim	. Actuate in the opposite direction
2.	Control wheel	Maintain wings level
3.	Rudder pedals	Cancel sideslip
4.	Autopilot	Disengage
5.	Yaw damper	OFF
6.	Differential thrust	Reduce the effort on the pedals (as necessary)
7.	Recommended maximum crosswi	nd for landing23 kts
		<u></u>

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).

ENGINES INOPERATIVE

ALL ENGINES OUT CONDITION

Phase I

1.	Bus C and D SWITCHES		OFF
2.	Communications	VHF 1/	ATC 1

- 3. Establish the aircraft within the In Flight Relight Envelope. (See page E-23)
- 4. Switch off as many services as necessary to decrease the battery load down to 50 amps per battery.
- 5. Relight all 3 engines per applicable procedure, Yellow Tab 3 or Yellow Tab 4.

Phase II

If no engine can be relighted:

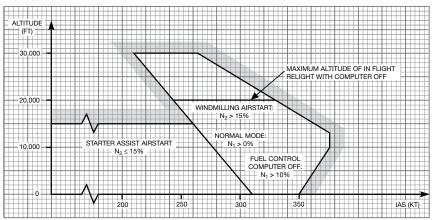
Be prepared to execute a Forced Landing or Ditching, Emergency section, Red Tab 11, page E-26 or E-27.

- 6. Standby Pump Switch.....ON
- 7. At VFE extend the slats using the emergency slat system if necessary.
- 8. If a forced landing is anticipated, extend the landing gear at VLO, if possible, using the Landing Gear Free Fall procedure, Abnormal section; Yellow Tab 11, page A-22. This should take approximately two minutes.

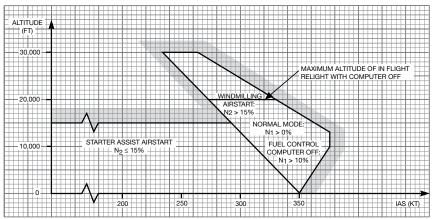


IN FLIGHT RELIGHT ENVELOPE

ENGINES 1 AND 3



ENGINE 2



APPROACH AND LANDING WITH TWO ENGINES INOPERATIVE

Preliminary Steps

Reduce the aircraft weight to minimum practical.

Determine the weight limitation for enroute climb gradient.

Determine the landing configuration and the landing distance/ field length additive.

	a. Use S+20 Landing Distance Charts (Normal Procedures Checklist, Performance Tab, P-20, 21)		
	1. Slats only	Add 1400/2300 FT	
	2. S+20	Charted Data	
	3. Outboard slats only	Add 1580/2600 FT	
	4. Outboard S+20	Add 180/300 FT	
	If brakes are supplied by the #2 hydr distance/landing field length by 30%.		
1. Fue	el System Situation	CHECKED	
2. Bus	s Tie Switch	TIED	
3. Lim	nit Generator Load	300 AMPS MAX	
4. Cre	ew and Cabin Bleed Air Switches	OFF	
5. Wit	th #1 and #2 Engines Inoperative	Brakes #2 OFF	
6. Hy	draulic Standby Pump Switch	ON	

Approach

10

7. Avoid icing conditions.

With engines #1 and #2 inoperative, refer to checklist (A).

With engines #1 and #3 inoperative, or engines #2 and #3 inoperative, refer to checklist (\mathbf{B}) .

- (A) Engines #1 and #2 inoperative.
 - 1. Slats (200 KIAS)..... Emergency Slats Switch When committed for landing:
 - 2. Landing Gear (190 KIAS) EXTEND (YELLOW TAB 11)

 - b. EMERG GEAR Handle.....PULL
 - 3. Slat Flap HandleS+20, or as previously determined
 - 4. Approach Speed:

Outboard slats onlyVREF + 25 KNOTS

Outboard S+20VREF + 10 KNOTS

Use moderate braking with brakes supplied by the #2 hydraulic system.



B E	ngines #1 and #3 inoperative, or engines #2 and #3 inoperative.		
1.	SlatsEXTENDED		
2.	At no less than 1000 FT AGL, decisionGO AROUND OR LAND		
	When committed for landing:		
3.	Landing GearDOWN		
4.	Slat Flap Handle S + Flaps 20, or as previously determined		
5.	Approach Speed:		
	Slats OnlyVREF + 20 KNOTS		
	S+20VREF + 5 KNOTS		
Afte	r Touchdown		
Normal deceleration procedure if braking with antiskid is available and if thrust reverser is available.			
	O-AROUND WITH TWO ENGINES INOPERATIVE		
	CAUTION		
The decision to land or go-around must be made at or above 1,000 feet AGL.			
The altitude loss associated with the go-around procedure is approximately 500 feet.			
The landing gear cannot be retracted with #1 and #2 engines inoperative.			
1.	Take-off ThrustSET		
2.	Landing Gear HandleUP		
	elerate while in descent on normal slope.		
	·		

3. Slat Flap Handle CLEAN

Accelerate to the enroute climb speed, and initiate climb.

10

At VREF + 25 knots

EMERGENCY CONDITIONS

FORCED LANDING

Preli	minary Steps:
1.	Transmission of Distress Signal"MAYDAY"
2.	Transponder Code
3.	Passenger Briefing and PreparationCOMPLETE
4.	Fasten Seat Belt/No Smoking SignON
5.	Cockpit Jump Seat (If Possible)STOWED
Appr	oach:
6.	Airframe Anti-iceOFF
7.	Crew Bleed Air SwitchOFF
8.	Cabin Bleed Air SwitchOFF
9.	HP Bleed Switches OFF
10.	PRV SwitchOFF
11.	Cabin Pressure SwitchDUMP
12.	Manual Pressurization KnobUP
13.	Landing GearEXTENDED
14.	Slats/Flaps SLATS + FLAPS 48
15.	Approach SpeedVREF
Just	Before Touchdown:
16.	Vertical SpeedAPPROX 300 FT/MIN
	Generator Switches OFF
18.	Battery Switches OFF
19.	Power Levers
After	the aircraft has come to rest:
20.	Fire Handles (All Three)PULL
21.	Engine Fire Extinguisher (All Three)POSITION 2
22.	Cockpit Jump SeatSTOWED/AISLE CLEARED

11

Use emergency exits and cabin access door to evacuate the aircraft.



DITCHING

Preli	minary Steps:	
1.	Transmission of Distress Signal	"MAYDAY"
2.	Transponder Code	7700
3.	Passenger Briefing and Preparation	COMPLETE
4.	Life Jackets	DONNED/CHECKED
5.	Fasten Seat Belt/No Smoking Sign	ON
6.	Cockpit Jump Seat (If Possible)	STOWED
7.	Audio Warning Circuit Breakers	PULLED
Appr	oach (Parallel to Main Swell):	
8.	Airframe Anti-ice Switch	OFF
9.	Crew Bleed Air Switch	OFF
10.	Cabin Bleed Air Switch	OFF
11.	Bag Air Switch	OFF
12.	ECU Inlet Control Door Handle	PULL
13.	HP Bleeds	OFF
14.	PRV Switch	OFF
15.	Cabin Pressurization Selector Switch	DUMP
16.	Manual Pressurization Knob	UP
17.	Landing Gear	UP
18.	Slats/Flaps	SLATS + FLAPS 48
19.	Airspeed	VREF
Prior	to contact:	
20.	Vertical Speed	APPROX 300 FT/MIN
21.	Generator Switches	OFF
22.	Battery Switches	OFF
	the aircraft on the crest and parallel to sw d and with a noseup attitude of 11 to 13°.	ell at the slowest practical
After	touchdown:	
23.	Power Levers	SHUTOFF
24.	Engine Fire Handles (All Three)	PULL
25.	Cockpit Jump Seat	STOWED/AISLE CLEAR

CAUTION

Do not open the main cabin door.

Use emergency exits to evacuate the aircraft.

BOMB ON BOARD

To avoid the activation of an altitude sensitive or timer ignition bomb, the following procedure focuses on:

- Making the cabin altitude not exceed the value at which the bomb was discovered
- Trying to minimize the flight time.

To reduce the effects of explosions by helping the blast to go outwards, the flight-crew should maintain approximately 1 psi differential pressure (which corresponds to a 2,500 ft difference between the airplane altitude and the cabin altitude).

Procedure

- Airplane.......LEVEL OFF
 FASTEN BELTS and no smoking light pushbuttons........ON
 Seat belts must be fastened, properly adjusted and sufficiently tightened. The crew must also put on their harnesses and check that they are locked.
- 3. Transmission of distress signal.......MAYDAY
- 4. ATC transponder......MAYDAY CODE
- 5. UP-DN control Between 1 and 2 o'clock minimum 30 seconds
- 6. Cabin pressure selector switch MAN
- 8. Divert to the nearest suitable airport in the shortest time.
- 9. Descent to altitude = cabin altitude + 2,500 ft ($\Delta p = 1$ psi) or safety altitude.
- 10. When at cabin altitude + 2,500 ft:

Continue descent maintaining Δp CABIN = 1 psi.

CAUTION

If structural integrity is questioned:

- Limit airspeed value to lowest practical value,
- Avoid high manuevering load factors



NOTE

Approach and landing are performed using the normal procedures and checklist.

Before Landing

10.	Cabin pressure selector	switch	AUTO

After landing and when airplane stopped in a remote area:

12. EMERGENCY EVACUATION procedure...... ACCOMPLISHED

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).

EMERGENCY EVACUATION

Phase I

1.	Park Brake	SET
2.	ATC - Distress Transmission	NOTIFY
3.	Passengers	INSTRUCTED
Phas	se II	
4.	Fire Pull Handles (All 3)	PULL
5.	GEN and BAT Switches (All 5)	OFF
6.	EMERG LIGHTS Switch	ON
7.	Engine Fire Extinguisher DISCH Switch (All 3)	POSITION 2
8.	APU Fire Extinguisher DISCH Switch	POSITION 1
9.	Third Cockpit Seat	STOWED
10.	Evacuation	INITIATE

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).

VOLCANIC ASH ENCOUNTER

WARNING

EXIT ASH CLOUD AS QUICKLY AS POSSIBLE. DO NOT ATTEMPT TO CLIMB OUT OF THE ASH CLOUD.

CAUTION

Weather radar does not detect volcanic ash.

1. Land at the nearest suitable airport. 4. MAYDAY message.....TRANSMIT 5. Crew oxygen masksDONNED - 100 % + EMERGENCY 6. Smoke goggles......DONNED - VENT VALVE OPEN IGN lightsON 8. ANTI-ICE ENG switches (all 3)......ON (2) 9. Power levers: one by one SMOOTHLY REDUCE THRUST TO LOWEST ITT (3) If unable to maintain altitude: • Fly a drift down descent. 10. Power leversAVOID RAPID THRUST CHANGES (3) 11. Engines parameters...... MONITOR If engine surge is evidenced: Corresponding engineSMOOTHLY REDUCE THRUST **UNTIL ENGINE STABILIZES**

 Be prepared to apply ENGINE FAILURE IN FLIGHT procedure Yellow tab Tab 2, A-2 or ALL ENGINES OUT CONDITION proce-

dure Red tab Tab 9, E-22 (4).



12. Airspeed indications MONITOR

If airspeed indications become unreliable:

 Apply UNRELIABLE AIRSPEEDS AT HIGH ALTITUDE procedure Red tab Tab 6, E-13.

If smoke, acrid odor or volcanic dust fill the cabin:

- NO SMOKING light pushbutton.....ON
- PASSENGER OXYGEN controller OVERRIDE (5)
- Passenger masks......DONNED CHECKED

Technical Status

Many airplane systems can be severely affected.

Operational Status

The pilot should land at the nearest suitable airport.

Technical Explanations

For additional explanations, refer to "operations in contaminated air-space" procedure (section 2-80).

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).

Expanded Explanations

(1) 180 turn:

Considering that an ash cloud can extend for hundred of miles, a 180 turn in descent is the best escape strategy. Depending on the situation, an emergency descent may be necessary.

(2) ANTI ICE: ENG switches (all 3):

This improves the engine stall margins by increasing the bleed air flow, and increases the fuel /air ratio in the combustion chamber.

(3) Thrust levers:

Keeping ITT at the lowest value lowers the fused ash buildup on turbine blades and hot section components.

Rapid thrust variation must be avoided since engine surge margins may be reduced.

(4) Engine relight:

If engine relight is attempted, it could take longer than normal to reach the idle thrust due to the combined effects of high altitude and volcanic ash ingestion.

(5) PASSENGER OXYGEN controller:

Select OVERRIDE to ensure the masks boxes to open and oxygen to be supplied to the passenger masks

STALL RECOVERY

Phase I

SIMULTANEOUSLY and SMOOTHLY:

Cilvic	GINIOEI/ INVESSEE AND STITE!			
1.	Autopilot	DISENGAGE		
2.	Pitch	NOSE DOWN		
3.	Bank	WINGS LEVEL		
4.	Power levers	FULL FORWARD		
5.	Airbrakes	POSITION 0		
6.	Pitch trim	AS REQUIRED		
Phase II				
7.	Pitch attitude	CLOSE TO HORIZON		
8.	Thrust	ADJUST		
9.	Speed and FD modes	AS REQUIRED		

FSI NOTE

10. Autopilot AS REQUIRED

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).



UNUSUAL ATTITUDE RECOVERY - NOSE UP

Phase I

1 Autopilet	DISENGAGE
1. Autopilot	DISENGAGE
2. Power levers	FULL FORWARD
3. Bank the aircraft by the shortest way	80° TO 90° BANK
4. Airbrakes	POSITION 0
When aircraft nose is close to horizon:	
5. Bank	WINGS LEVEL
6. Power levers	ADJUST
Phase II	
7. Speed and FD modes	AS REQUIRED
8. Autopilot	AS REQUIRED

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).

UNUSUAL ATTITUDE RECOVERY - NOSE DOWN

Phase I

1.	Autopilot	DISENGAGE
2.	Power levers	ldle
3.	Bank	Wings level
4.	Airbrakes	AS REQUIRED
5.	Nose up pitch	SMOOTHLY APPLY
Wher	aircraft nose is close to horizon:	
6.	Airbrakes	POSITION 0
7.	Power levers	ADJUST
Phas	se II	
8.	Speed and FD modes	AS REQUIRED
9.	Autopilot	AS REQUIRED

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).

PILOT INCAPACITATION

If a pilot becomes incapacitated, the remaining pilot must:

- 1. Maintain control of the aircraft by:
 - Taking over the controls,
 - Selecting the AP XFR switch button on the valid pilot side,
 - Engaging the AP as soon as possible.
 If transfer of the autopilot control is necessary, verify control modes. The autopilot will remain engaged, however, the modes may possibly revert to basic modes or not be the same as the original side prior to the transfer.
- 2. Check position of essential controls and switches.
- Inform ATC and declare an emergency.
 Communications are preferably performed using the headset.
- 4. Request the help of a cabin crew or a passenger to assist the incapacitated pilot:
 - Pull the pilot back by the shoulders,
 - Tighten and manually lock the shoulder harness of the incapacitated pilot,
 - Place and secure the hands under the belt harness,
 - · Move the seat completely aft,
 - Recline the seat back if possible,
 - Lift each knee to remove the pilot's feet from the rudder pedals,
 - Move the rudder pedals of the incapacitated pilot fully forward.
 - Perform a medical assessment of the incapacitated pilot (including vital signs),
 - · Administer first aid as necessary,
 - Consider use of the oxygen mask or therapeutic oxygen and mask.
 - Contact medical assistance if time and environmental conditions permit,
 - Remove the incapacitated pilot from the seat if phase of flight and environmental conditions permit.



- 5. Reorganize the cockpit workload:
 - Distribute the workload among the remaining crew if possible,
 - · Perform checklists earlier than normal,
 - · Request radar vectoring whenever possible,
 - Achieve landing configuration earlier than normal.
- 6. Divert to the nearest suitable airport depending on medical emergency level and flight conditions as required.

NOTE

It takes two people to remove the weight of an unconscious person from a seat without endangering any controls and switches.

If it is not possible to remove the incapacitated pilot, the cabin crew or any medically qualified passenger must remain in the cockpit to take care of and observe the incapacitated pilot.

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Emergency Section (Not in AFM).



ABNORMAL PROCEDURES

Procedures in this section address foreseeable situations involving failures, in which the system's redundancy or selection of an alternate system will maintain an acceptable level of air worthiness.

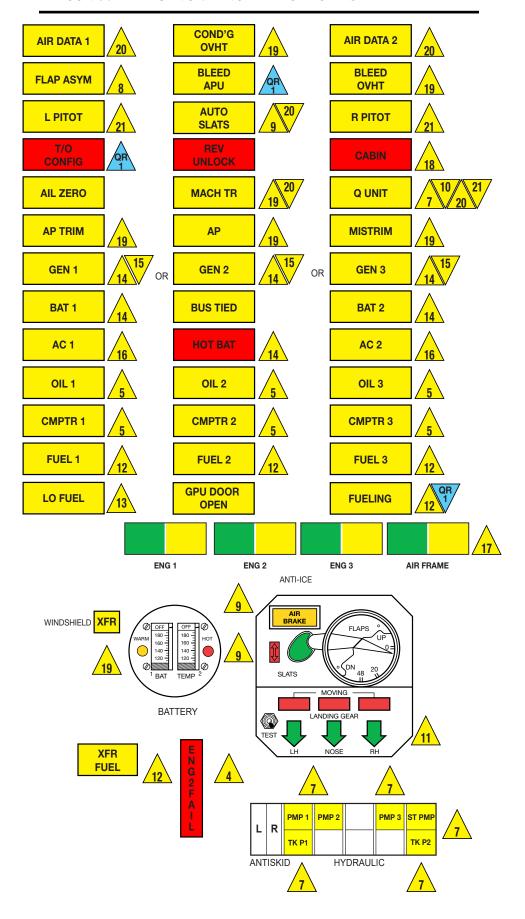
I. IMMEDIATE ACTION—There are no memory items involved with these procedures. When a failure occurs, the crew should assess its priority in relationship to the immediate effect on aircraft controllability and the continuance of the planned flight path.

Procedures that could have an immediate effect, but involve actions that are fundamental to basic airmanship, are:

- Air Data System Failures—Refer to standby instruments or transfer control.
- Engine Vibration (Actual) Reduce thrust.
- Pitch Trim Runaway—Override or disconnect.
- II. SPECIFIC PRIORITIES—Where there is no immediate action required, it is advisable to complete a Normal Checklist if in progress or due prior to calling for the Abnormal Checklist.

Because of the interrelationship of systems, a failure in one can have an effect on other systems.

The system that can produce multiple annunciations are (1) Engine, (2) Electric, (3) Hydraulic and should be dealt with in priority as numbered.



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ENGINE

ENGINE FAILURE BEFORE V1

Abort	tha	tal	(00	ff.
ADOIL	III I	171	\leftarrow	111

1.	Brakes	MAXIMUM
2.	Power Levers	IDLE
3.	Airbrake Handle	POSITION 2
4	Thrust Reverser	DEPLOYED

ENGINE FAILURE AFTER V1

Continue the takeoff:

1.	At VR	ROTATE NORMALLY
2.	Take Off Attitude	SET
3.	Airspeed	MAINTAIN V2
4.	Positive Rate of Climb	GEAR UP

CAUTION

If the engine failure occurs at a speed above V2, maintain that speed.

Above 400 feet AGL:

5.	Level Flight Accelerati	onINITIATE
6.	Airspeed:	
	a. Slats + 20°	V2 + 15 KNOTS
	b. Slats Only	V2 + 25 KNOTS
7.	Slat/Flap Handle	CLEAN
8.	Climb Speed	MAINTAIN 1.5 VS
5 min	utes after brake release	э:
9.	Maximum Continuous	ThrustSET
10.	After Takeoff Checklist	tCOMPLETE
11.	Refer to Inflight Engine	e Failure checklist, Yellow Tab 2, page A-2.

INFLIGHT ENGINE FAILURE

Identify the failed engine. If engine integrity is not questionable: Proceed to Airstart Checklist, Tab 3, page A-4.

If engine integrity is questionable, or if airstart is unsuccessful: Complete engine shutdown as follows:

٠١	5.515 51.91.15 51.41.45 11.11 us 151.51.51
1.	Power Lever IDLE FOR 1 MINUTE IF POSSIBLE, THEN CUTOFF
2.	Booster PumpOFF
3.	Generator SwitchOFF
	*NOTE
	In icing conditions, if the #1 or #2 engine has been shutdown, continue to operate respective engine anti-ice system.
*4.	Engine Anti-ice SwitchOFF
5.	HP Bleed SwitchOFF
6.	PRV Switch (With #2 Engine Inoperative)OFF
7.	Fire HandlePULL
If eng	jine #3 is shutdown:
8.	Bus Tie SwitchTIED
9.	Hydraulic Standby Pump SwitchON (AS REQUIRED)

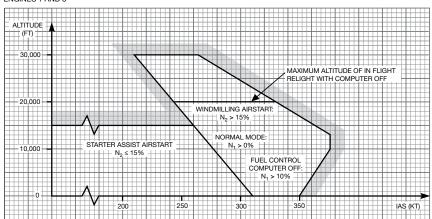
Consult One Engine Inoperative Approach/Landing/Go-Around Procedures, Yellow Tab 6, page A-12 or Approach And Landing With Two Engines Inoperative, Red Tab 10, Pages E-24 and E-25.

2

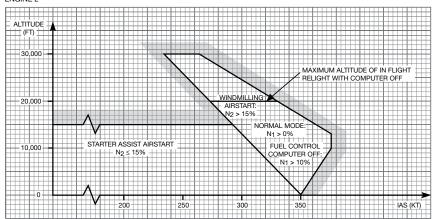


INFLIGHT RELIGHT ENVELOPE

ENGINES 1 AND 3



ENGINE 2



RR12150 FIG A-1 0CT 26 1993

AIRSTART

WARNING

DO NOT ATTEMPT TO RELIGHT AN ENGINE AFTER AN ENGINE FIRE OR IF THE ENGINE INTEGRITY IS QUESTIONABLE.

CAUTION

Wait 10 seconds between two consecutive airstart attempts. Do not make more than three successive airstart attempts.

Preliminary Steps:

*Establish aircraft within the Airstart envelope; Tab 2, page A-3.

1.	Fire Handle	IN
2.	Power Lever	CUTOFF
3.	Generator Switch	ON
4.	Engine Computer Switch	ON
5.	Booster Pump	ON
6.	Engine Anti-ice Switch	OFF (IF POSSIBLE)
7.	Airframe Anti-ice Switch	OFF (IF POSSIBLE)
8.	Bus Tie Switch	TIED

If N2 speed greater than 15% and indication of N1 rotation, use procedures (A), Windmilling Airstart, page A-5.

OR

N2 speed not greater than 15%, use procedure (B), Starter Assist Airstart, page A-6.

ΛR

If Engine Computer is inoperative, use procedure \bigcirc , Airstart with Fuel Control Computer Off, page A-7.

NOTE

Abort the airstart if:

- Oil pressure does not rise within 10 seconds after light-off.
- ITT does not rise within 10 seconds after light-off.
- ITT is rising rapidly and approaching 907°C limit.
- N1 remains close to zero when N2 = 20%.
- N2 speed is not rising rapidly and smoothly to 24% after light-off.
- During an Airstart with Fuel Control Computer Off, the N1 exceeds 80% with the power lever at idle.

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NOTE

If ignition light remains on through N2 speed greater than 50%:

- Start Selector SwitchMOTOR START STOP
 Check that the IGN light is out.
- 2. Start Selector GROUND START

(A) Windmilling Airstart

- 1. Start Selector Switch......AIRSTART (IGN LIGHT ON)

When N2 speed greater than 50%:

- Start Selector Switch......GROUND START (IGN LIGHT OUT)
 Check that the IGNITION, GENERATOR, and OIL lights are out.
- 4. Engine Instruments......CHECKED
- 5. Bus Tie Switch......FLIGHT NORMAL Check that the BUS TIED light is out.

NOTE

To abort airstart:

- 1. Power LeverCUT-OFF
- 2. Start Selector Switch MOTOR START STOP
- Return to Inflight Engine Failure checklist, Yellow tab 2 page A-2.

AIRSTART (Cont)

B Start Assist Airstart

NOTE

A starter assist airstart may cause disengagement of the autopilot system.

- 1. Start Selector Switch......AIR START (IGN LIGHT ON)
- 2. Start Pushbutton...... DEPRESSED (LESS THAN 2 SECONDS)

When N2 speed is 12-15% and indication of N1 rotation:

When N2 speed is greater than 50%:

- 4. Start Selector Switch.......GROUND START (IGN LIGHT OUT)
 When the N2 stabilizes, check that the generator, oil, and the pump lights are out.
- 5. Engine Instruments......CHECKED
- 6. Bus Tie Switch......FLIGHT NORMAL Check that the BUS TIED light is out.

NOTE

To abort airstart:

- 1. Power Lever CUT-OFF
- 2. Start Selector SwitchMOTOR START STOP
- 3. Return to Inflight Engine Failure checklist, Yellow Tab 2, page A-2.

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C Airstart with Fuel Control Computer Off

Windmilling Airstart

Use Windmilling Airstart procedures, page A-5, for normal mode, but with N2 speed greater than 15% and N1 speed greater than 10%.

Starter Assist Airstart

When N2 speed is 50%:

- 4. Start Selector Switch......MOTOR START STOP Check that the ignition, generator, and the oil lights are out.
- 6. Start Selector Switch......GROUND START
- 7. Bus Tie Switch......FLIGHT NORMAL Check that the BUS TIED light is out.

NOTE

To abort airstart:

- 1. Power LeverCUT-OFF
- Start Selector Switch......MOTOR START STOP
- 3. Return to Inflight Engine Failure checklist, Yellow Tab 2, page A-2.

FLAME-OUT AND HIGH SPEED AIRSTART

WARNING

DO NOT ATTEMPT TO RELIGHT AN ENGINE AFTER AN ENGINE FIRE OR IF THE ENGINE INTEGRITY IS QUESTIONABLE.

CAUTION

Wait 10 seconds between two consecutive airstart attempts. Do not make more than three successive airstart attempts.

N2 RPM 15% or above

NOTE

This immediate airstart may be attempted at high altitude even at altitudes above the maximum start envelope.

1.	Power Lever	IMMEDIATELY TO IDLE
2.	Start Selector Switch	AIR START (IGN LIGHT ON)
Chec	k that the ITT rises within 10 seconds.	
3.	Power Lever	ADVANCE
After	relight:	
4.	Start Selector SwitchGROU	IND START (IGN LIGHT OUT)
5.	Engine Instruments	CHECKED

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G 2 F

A

ENGINE NO. 2 AIR INLET DOOR OPEN

- If the failure occurs on the ground before V1, abort the takeoff.
- If the failure occurs on the ground after V1, continue the takeoff.

In Flight:

Engine Shutdown Procedure:

1.	Power LeverCUT	OFF
2.	Booster Pump	OFF
3.	Generator Switch	OFF

*NOTE

In icing conditions, continue to operate #2 engine antiice system.

*4.	Engine Anti-ice Switch	FF
5.	HP Bleed SwitchC	FF
6.	PRV Switch (With #2 Engine Inoperative)	FF

7. Fire Handle......PULL

Consult One Engine Inoperative Approach/Landing/Go-Around Procedures, Yellow Tab 6, page A-12 or Approach And Landing With Two Engines Inoperative, Red Tab 10, pages E-24 and E-25.

ENGINE COMPUTER INOPERATIVE

CMPTR

NOTE

Prior to step No. 1, if operationally feasible, reduce power on affected engine below 80% N1.

- Engine Computer Switch.....OFF THEN ON

 If the COMPTR light remains on:
 - 2. Do not let the ITT of affected engine exceed indicated ITT of other engines.
 - 3. Avoid rapid displacements of power lever.

CAUTION

- · Maximum thrust may not be obtained.
- Idle thrust may be higher than normal.
- At a given N1 speed, fuel flow is approximately 5% higher.
- Surge Bleed valve will assume the 1/3 open position.

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ENGINE OIL

OIL

NOTE

The illumination of the OIL light indicates a low oil pressure condition, or the presence of metal chips in the lubrication system.

If the oil pressure is normal:

- 1. Monitor Oil Pressure and Temperature.
- 2. Reduce Power if Possible.

If the oil pressure is less than 25 PSI:

- 1. Reduce power.
- 2. Shutdown the engine as soon as possible.

Engine Shutdown Procedure:

1.	Power Lever	CUTOFF
2.	Booster Pump	OFF
3.	Generator Switch	OFF

NOTE

In icing conditions, if the #1 or #2 engine has been shutdown, continue to operate respective engine antiice system.

4.	Engine Anti-ice SwitchC)FF
5.	HP Bleed SwitchC)FF

6. PRV Switch (With #2 Engine Inoperative) OFF

7. Fire Handle......PULL

If engine #3 is shutdown:

8. Bus Tie Switch......TIED

9. Hydraulic Standby Pump Switch...... ON (AS REQUIRED)

Consult One Engine Inoperative Approach/Landing/Go-Around Procedures, Yellow Tab 6, page A-12 or Approach And Landing With Two Engines Inoperative, Red Tab 10, pages E-24 and E-25.

ONE ENGINE INOPERATIVE PROCEDURE

ONE ENGINE INOPERATIVE APPROACH/ LANDING/GO-AROUND (APPROACH CONFIGURATION SLATS OR S+20)

1.	Hydraulic ImplicationsCHECK
2.	Electrical ImplicationsCHECK
3.	Landing Distance and Climb RequirementsCHECK
Appı	roach
4.	Slat/Flap Handle
5.	Landing GearDOWN
6.	Approach SpeedSET
	S+20VREF + 5 KNOTS
	Slats OnlyVREF + 20 KNOTS
7.	Approach and Landing ChecklistsCOMPLETE
	NOTE
	When landing is assured and the possibility of a go- around is excluded, the slats / flaps may be extended to:
	Approach with S+ 20S + 48 (VREF)
	, pp. 64611 Will 6 1 26 William Will 6 (V. 121)
	Approach with SlatsS + 20 (VREF+5)
Go-A	. ,
U.U 2	Approach with SlatsS + 20 (VREF+5)
1.	Approach with SlatsS + 20 (VREF+5)
1. 2.	Approach with SlatsS + 20 (VREF+5) Around Power Levers
1. 2. 3.	Approach with Slats
1. 2. 3.	Approach with SlatsS + 20 (VREF+5) Around Power Levers
1. 2. 3.	Approach with Slats
1. 2. 3. 4.	Approach with Slats
1. 2. 3. 4.	Approach with Slats S + 20 (VREF+5) Around SET T/O N1 Power Levers SET T/O N1 Pitch Attitude 14° Landing Gear UP Climb Speed SET S + 20 VREF + 5 KNOTS Slats Only VREF + 20 KNOTS
1. 2. 3. 4.	Approach with Slats
1. 2. 3. 4.	Approach with Slats
1. 2. 3. 4. At no 5.	Approach with Slats S + 20 (VREF+5) Around SET T/O N1 Power Levers SET T/O N1 Pitch Attitude 14° Landing Gear UP Climb Speed SET S + 20 VREF + 5 KNOTS Slats Only VREF + 20 KNOTS lower than 400 feet AGL: Level Flight Acceleration INITIATE At VREF + 15 Knots SLATS ONLY



APPROACH 1. Slats/Flaps.....SET 2. Seat Belt Sign/No Smoking Signs.....ON 3. Anti-Icing AS REQUIRED 4. Radios.....SET FOR APPROACH 5. Passenger Briefing.......COMPLETED 6. Start Selector SwitchesAIRSTART 7. Ignition Lights(3) ON **LANDING** 1. Landing Gear......DOWN/THREE GREEN 2. Brake Selector#1 ON 3. Antiskid.....TESTED 4. Hydraulics (Pressure/Quantity) CHECKED 5. Test/Stall (Aircraft without SB166)STALL 1/STALL 2 TESTED Test/Stall (Aircraft with SB166) AUTO SLAT LIGHT OUT 6. Flaps......SET 7. No Smoking Sign.....ON 8. Taxi LightON 9. Windshield Wipers...... AS REQUIRED 10. Airbrakes.....IN/LIGHT OUT 11. Yaw Damper AS REQUIRED

HYDRAULICS

UNWANTED OPERATION OF STANDBY PUMP

ST PUMP

1. Hydraulic Standby Pump Switch...... OFF

LOSS OF NO. 1 HYDRAULIC SYSTEM

PMP 1 PMP 2 AND POSSIBLY Q UNIT lights

- Reduce airspeed down to 260 KIAS or MI = 0.76.
- Descend to an altitude not to exceed 45,000 ft. (for airplanes incorporating SB F50-163, maximum altitude extended to 49,000 ft).
- ST BY PUMP SwitchON

EFFECTS

LOSS OF	REMARKS
Servo-actuator barrel No. 1	Barrel No. 2 available.
Pitch and roll ARTHUR units.	If Q UNIT light on, disengage autopilot.
	Use EMERG SLATS switch:
	- Landing in S + FLAPS 48° configuration:
Normal Slat control system	 Speed, VREF + 5 kt. Increase the S+48 landing distance by 180ft/55m and the landing field length by 300 ft / 91 m.
	 Landing in S + FLAPS 20° configuration: Speed, VREF + 10 kt. Increase the S+20 landing distance by 180ft/55m and the landing field length by 300 ft / 91 m.
Normal and EMERG-GEAR: PULL controls.	Free fall extension of the gear. TAB 11
	Select #2 for braking (landing without antiskid)
Braking supplied by #1.	Additional increase of the determined landing distance or landing field length of:
	- 25 percent for S + FLAPS 48° landing.
	- 30 percent for S + FLAPS 20° landing.
Thrust Reverser	Dependent on Thrust Reverser availability.

DEPRESSURIZATION OF HYDRAULIC RESERVOIRS

TKP1

AND/ OR TKP2

- 1. Hydraulic Fluid Level and Pressure CHECKED If pressure starts fluctuating:
 - 2. Conditions Permitting, Descend......BELOW 20,000 FEET

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LOSS OF NO. 2 HYDRAULIC SYSTEM

PMP 3

•Reduce airspeed down to 260 KIAS or MI = 0.76 max.

If reservoir 2 level is within the red range:

1. ST BY PUMP switch......OFF

As long as the altitude is above 45,000 ft: (for airplanes incorporating SB F50–163, maximum altitude extended to 49,000 ft).

2. ST BY PUMP Switch OFF

EFFECTS

LOSS OF	REMARKS
Servo-actuator barrel No. 2.	Barrel No. 1 available.
Airbrake system.	The landing distance is increased by 600ft/183m (which makes 1,000ft/305m more on the landing field length)
Emergency slat control system.	Use normal slat control system.
No. 2 braking system.	The Park Brake system can still operate with accumulator pressure.
Nose wheel steering system	Use #1 braking system and differential brake pressure.
Flap system.	0°Landing with slats only, at VREF + 20 kt:
Flap setting	 The S + FLAPS 20° landing distance is increased by 2,000ft/610m (which makes 3,300 ft/1,006m more on the landing field length). This figure includes the consequence of airbrake system loss.
	20° Land using VREF + 5kt.
	48° Land using VREF.

LOSS OF NO. 3 ENGINE DRIVEN PUMP

PMP 3

NOTE

Avoid using the stand-by pump before initiating descent.

If the stand-by pump is used:

- 1. ST BY PUMP SwitchON
- 2. No. 2 System Pressure (1,500 2,150 psi)......CHECKED
- 3. No. 2 Fluid Quantity Indicator......MONITORED

If the stand-by pump is not used:

• Reduce airspeed down to 260 KIAS or MI = 0.76 max.

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FLIGHT CONTROLS

FLAP SYSTEM JAMMING OR ASYMMETRY

FLAP ASYM

[MAY BE ON]

WARNING

DO NOT CHANGE FLAP LEVER POSITION.

With flaps extended between 0° and 20°:

- 1. Approach Speed......VREF + 20 KNOTS
- 2. Landing Distance/Landing Field Length.........ADD 1400/2300 FEET With flaps extended between 20° and 48°:
 - 1. Approach Speed......VREF + 5 KNOTS
 - 2. Landing Distance/Landing Field Length...... S+20 FLAPS data

CAUTION

If the flap handle has not been selected to 48°, the "landing gear not extended" warning horn may not sound if the landing gear is not properly extended.



AILERON SYSTEM JAMMING

CAUTION

Use EMERG AILERON with caution due to possible reverse roll (depending on the location of the jamming).

1		Rudder pedalsSTOP THE ROLL
2		EMERG AILERON trimBANK / TRIM THE AIRPLANE
3	3.	Maximum bank angle15°
For	Lá	anding:
1		Recommended maximum crosswind
2		Use rudder pedals to roll the airplane.
3	3.	Slats-flapsS + FLAPS 48°
4	٠.	Approach speed (zero wind)V _{REF} + 10 KTS
5	.	Fly a shallow final approach.
6) .	Increase the landing distance by 14% for every 10 kts extra speed.

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Abnormal Section (Not in AFM).

RUDDER JAMMING

- 1. Use differential thrust to control the airplane.
- 2. Recommended maximum crosswind for landing....... 10 KTS
- 3. In case of go-around with one engine inoperative, bank the airplane up to 5° to maintain heading.

FSI NOTE

This procedure is found in the Operating Manual, Book 1 of the Abnormal Section (Not in AFM).

AIRBRAKES DO NOT RETRACT

AIRBRAKE

With the Airbrakes Extended to Position #1:

Approach Speed:

With Airbrakes Extended to Position #2:

Approach Speed:

NOTE

Place the airbrake control handle in the position which matches the airbrake configuration.

SLAT MONITORING SYSTEM MALFUNCTION

AUTO-SLATS

AT TAKEOFF

No arming of the Automatic Slat Extension System

(Airplanes equipped with automatic monitoring of the flight/ground proximity switches, FSo-166 Service Bulletin)

1. Airspeed Range 1.3 VS to 270 KIAS

AUTO-SLATS

IN FLIGHT

1. Limit Airspeed to Below......270 KIAS



SLAT SYSTEM MALFUNCTION



Light on and possible roll.

Cruise

Limit Airspeed to Below	200 KIAS
2. Autopilot	DISENGAGED
Approach	
Slat-Flap Handle Left In	SLATS
2. Emergency Slats	ON
If the green light comes on (red light out):	
3. Slat-Flap Handle	S + FLAPS 48
4. Normal Approach At	VREF
If the green light does not come on:	

C. Olat Class Handle

5. Slat-Flap Handle......CLEAN

Green Light On

(Outboard slats are extended)

1. Slat-Flap HandleAS NECESSARY

(The red light comes on, the green light goes out)

- 2. Approach speed:
 - Slats + Flaps 48° VREF + 5 KT
 - Slats + Flaps 20° VREF + 10 KT

Green Light Out

(Outboard slats are not extended)

1. Do not extend flaps.

NOTE

Approach speed VREF + 30 KT

NOTE

Increase landing distance by 180 ft / 55 m and landing field length by 300 ft / 91 m.

CAUTION

Do not return EMERG SLATS switch to OFF.

To land in CLEAN configuration:

- Check AFM (P.5.50.8) whether speed VREF + 30 kt is less than VMBE.
 - In that case, landing distance is increased by 3,000 ft/914 m and the landing field length by 5,000 ft/1,524 m.
 - If not, braking cannot be initiated until the speed has decreased below VMBE: Add to the above figure an extra landing distance of 280 ft/85m (470 ft/143m for landing field length) for each knot of difference between VREF + 30 kt and VMBE.

Q UNIT	Q UNIT
1. Limit Airspeed260 KTS/0.76	M MAXIMUM
2. Fasten Seat Belts Sign	ON
3. Autopilot	DISENGAGE
CAUTION	

The pitch and roll control forces may be higher or lower than normal depending on whether the ARTHUR units fails in "high" or "low" speed position.

With Light Control Forces:

Avoid large displacements and rapid movements of the control surfaces.

CAUTION

Maintain speed below 260 KIAS or MI 0.76.

With Heavy Control Forces:

Use normal or emergency trim system and execute a shallow approach at VREF.

NOTE

- The QUNIT light can illuminate for an ARTHUR Q failure, or #1 hydraulic system inoperative, or in the event of an engine No. 1 PT2 TT2 probe malfunction in icing conditions.
- A No. 1 ADC failure may illuminate the QUNIT light without incurring any Q-Unit failure.



INOPERATIVE ELEVATOR LANDING

Approach Speed:	
Slats + Flaps 20°	VREF + 15 KNOTS
Slats + Flaps 48°	VREF + 10 KNOTS
Landing Distance/Landing Field Length	ADD 1800/3000 FEET
Use very short actuation signals to set stabilizer to	desired position.
Make a shallow final approach.	

INOPERATIVE STABILIZER LANDING

4. Landing Distance/Landing Field Length.....ADD 480/800 FEET

CAUTION

Do not reduce engine thrust before touchdown.

The "Landing Gear Not Extended" warning horn may not sound.

If the stabilizer is jammed in the range -5° to -11°:

Make a normal approach.

- 2. Slat-Flap Handle S + FLAPS 48°
- 3. Airspeed......VREF

LANDING GEAR STEERING BRAKES

LANDING GEAR RETRACTION MALFUNCTION

1. Airspeed...... 190 KNOTS MAX

In icing conditions or if the takeoff was made through snow or slush on the runway, if the red landing gear lights fail to go out upon retraction of the landing gear, ice may be preventing the main landing gear from locking in the UP position. Cycle the GEAR DOWN and up to get rid of the ice.

If Non-Icing conditions or if takeoff was made without snow or slush on the runway: Extend and keep the landing gear down.

LANDING GEAR EXTENSION MALFUNCTION

WARNING

- ONE OR MORE GREEN GEAR LIGHT OUT.
- LANDING GEAR HANDLE LIGHT BLINKING.
- LANDING GEAR NOT EXTENDED WARNING HORN MAY SOUND.
- 2. Emerg Gear Handle PULLED

If three green gear lights come on and the landing gear handle light goes out, the landing gear is down and locked. Do not actuate landing gear controls.

If at least one green light does not come on and the landing gear handle light remains blinking, apply the FREE FALL EXTENSION procedure.

Free Fall Procedure

NOTE

Free fall extension of all 3 gears takes approximately 2 minutes.

3. Airspeed......NOT LESS THAN 160 KNOTS

If necessary, extend the main gear first; one after the other:

4. Manual Main Gear Release HandlesPULL

Slip the aircraft left and right while accelerating to 190 KIAS until illumination of each green light is achieved. Gently come back to neutral rudder.

If necessary, then extend the nose gear:

5. Manual Nose Gear Release Handle......PULL

Accelerate until illumination of the green light is achieved.

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CAUTION

Do not actuate landing gear controls once all three gears are locked down. Keep the landing gear down.

NOSEWHEEL STEERING FAILURE

- 1. Release or return the steering control to the neutral position.
- 2. Use differential braking.

NOSEWHEEL SHIMMY

1. Hold the nose wheel steering control depressed.

NO. 1 BRAKE SYSTEM OR ANTISKID INOPERATIVE

If the Antiskid Test was abnormal:

- - For landing S + 20° Flaps ADD 30%

NO. 1 AND NO. 2 BRAKE SYSTEMS INOPERATIVE

The thrust reverser and the parking brake are sufficient to permit the aircraft to be brought to rest.

Apply brake pressure cautiously, pulling the parking brake handle to intermediate detent only, and avoid alternate application/release actions

NOTE

FUEL

LOW BOOSTER PUMP PRESSURE FUEL 1 OR FUEL 2 OR FUEL 3
1. Associated Crossfeed OPEN
2. Associated Booster PumpOFF
If the light goes out:
Continue flight maintaining balanced fuel levels in wing tanks.
If the light remains on:
3. CrossfeedCLOSED
4. Associated Total Fuel Quantity Indicator MONITOR
If a fuel loss is evident:
5. Power LeverCUTOFF
6. Associated Engine Fire HandlePULL
7. Booster PumpOFF
8. Generator SwitchOFF
NOTE
In icing conditions, if the #1 or #2 engine has been shutdown, continue to operate respective engine anti-ice system.
9. Engine Anti-ice SwitchOFF
3
10. HP Bleed SwitchOFF
10. HP Bleed SwitchOFF
10. HP Bleed SwitchOFF 11. PRV Switch (With #2 Engine Inoperative)OFF
10. HP Bleed Switch



FUELING LIGHT ON INFLIGHT

FUELING

To prevent overboard discharge of fuel through vent outlets:

- 1. Avoid rapid changes in attitude.
- 2. Restrict pitch and bank to low angles.
- 3. Abort flight if conditions permit.

WING TANK LEVEL ABNORMALLY LOW

1.	Associated "Low" Tank Transfer Intercom OPEN			
2.	Associated "Low" Tank Transfer Pump OFF			
3.	Total Fuel Quantity Indicator MONITOR			
If the wing tank level keeps decreasing:				
4.	Both Transfer Intercoms OPEN			
5.	Transfer Pump (Low Tank)ON			
6.	Transfer Pumps (Associated with Normal Level Tanks) BOTH OFF			
	When the fuel in the low tank is exhausted:			
7.	Transfer Pumps (Associated with Normal Level Tanks)BOTH ON			
8.	Transfer Pump (Associated with Empty Tank) OFF			
9.	Transfer Intercom Associated With Normal Level Tank CLOSE			
If wing tank level stops decreasing:				
10.	Fuel Quantity And Fuel Burn MONITOR			
	If a fuel leak is evident:			
11.	Engine Shutdown (Yellow Tab 2)COMPLETE			
	Maintain balanced fuel in wing tanks.			

CAUTION

Fuel crossfeeds must not be used for fuel level balancing unless it is evident the fuel asymmetry is not due to a fuel leak.

FUEL FEEDER TANK LEVEL LOW

LO FUEL

Indication: Rear quantity indicator(s) below green arc and light possibly on.

- Verify the level drop is not due to a fuel leakage.
 - 1. Total Quantity Indications (All 3) CROSS-CHECKED
 - 2. Fuel Quantity Indicators.....REAR
- If the total air temperature is very low, the failure may be due to fuel freezing.

In case of extended cruise in cold atmosphere with total air temperature below fuel freezing point, wing-to-feeder tank transfer may be lost. Therefore, monitor the total air temperature, the fuel temperature indicator (SB 136), and carefully monitor the transfer. If necessary, increase mach number or decrease altitude to raise the total air temperature.

 AIRPLANES EQUIPPED WITH AN EMERGENCY WING-TO-SIDE FEEDER TANK TRANSFER SYSTEM "EMERG FUEL TRANSFER" (AMD-BA F50-175 SB APPLIED)

If Side Feeder Level(s) Low, consult procedure (A) or

If Center Feeder Level Low with at least one of the side regulations Normal, consult procedure (\mathbf{B}) or

If center feeder level low with Abnormal side feeder regulation, consult procedure (C) page A-27.

- (A) Side Feeder Level(s) Low
 - 1. Emergency Fuel Transfer Switch ON AFFECTED FEEDER SIDE
 - Hold the switch in position until feeder level has risen to 700 lbs (320 kgs). Then check Lo FUEL light goes out.
 - Fold down the switch guard.
 - 2. Keep checking the feeder level. It should go down to 600 lbs (272 kgs) and stabilize. If not, resume the procedure at step A.
- B Center Feeder Level Low, with at least one of the side regulations normal
 - 1. X Feed (On the side where feeder regulation is normal).......... OPEN
 - 2. Center Feeder Booster OFF

Continue flight maintaining balanced fuel levels in wing tanks.



© Center Feeder Level Low, with abnormal side feeder regulations				
1. One of the X Feeds				
2. Center Feeder BoosterOFF				
3. Emergency Fuel Transfer Switch ON THE SIDE OF THE OPEN X FEED				
 Hold the switch in position until affected side feeder level has risen to 800 lbs (363 kgs). 				
Fold down the guard.				
 Closely monitor that side feeder. Level should drop to 600 lbs (272 kgs) then stabilize. If not, resume the procedure at step C. 				
5. XFR Intercom (On the side where X Feed is open) AS REQUIRED				
• AIRPLANES NOT EQUIPPED WITH AN EMERGENCY WING-TO-				
SIDE FEEDER TANK TRANSFER SYSTEM "EMERG FUEL TRANSFER" (AMD-BA F50-175 SB NOT APPLIED)				
If Side Feeder Tank Level Low, consult procedure (D).				
If two Side Feeder Tanks Level(s) Low, consult procedure (E).				
If Center Feeder Level Low, with at least one of the side feeder regulations normal, consult procedure (F).				
D Side Feeder Tank Level Low				
1. Associated X FeedOPEN				
2. Booster Associated with "LOW TANK" OFF				
3. XFR Intercom				
Continue flight maintaining balanced fuel levels in wing tanks.				
E Two Side Feeder Tanks Level(s) Low				
1. X Feed (All 2)OPEN				
2. Side Feeders BoosterOFF				
3. XFR Intercom (All 2)OPEN				
Continue flight checking tank levels.				
F Center Feeder Level Low, with at least one of the side feeder regulations normal				
1. X Feed (On the Side Where Feeder Regulation is Normal) OPEN				
2. Center Feeder BoosterOFF				
XFR Intercom (On the side where X feed is open)				
4. Apply the same procedure for the other side feeder.				
Continue flight maintaining balanced fuel levels in wing tanks.				

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FEEDER TANK LEVEL HIGH

1.	Transfer Pumps (All 3)	OFF
2.	Both Crossfeed Switches	OPEN
3.	"Normal" Level Boost Pump(s)	OFF
If fuel	level keeps increasing in affected feeder tank:	
4.	Associated Transfer Shutoff Valve	AS REQUIRED
If fuel	level is restored to normal in affected feeder tank:	
5.	Booster Pumps (All)	ON
6.	X Feed (Both)	CLOSED
7.	XFR Pump (Associated With the Two	
	Normal Level Feeder Tanks)	ON
Q	Fuel Management	AS REOLURED

ELECTRICAL

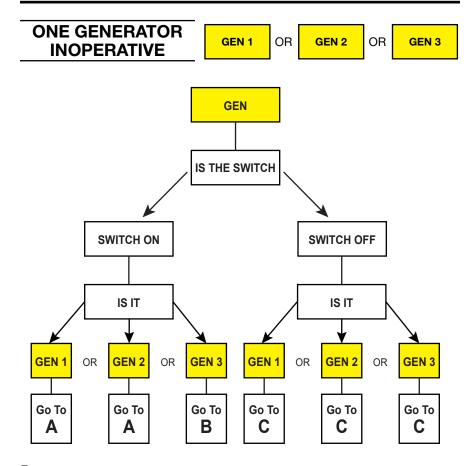
TWO GENERATORS INOPERATIVE

	I WO GEN	ENATURS INOPERATIVI	
GEN A	ND GEN	, AND POSSIBLY TRIPPED SWI	TCHES
1. Associa	ated Generator	r(s); Volts/Amps	CHECKED
)	
3. Associ	ated Generator	r SwitchesATTE (MA	EMPT RESETS X TWO EACH)
If resetting ca	annot be achie	ved:	
4. Associa	ated Generator	r Switch(es)	OFF
5. Bus Tie	Switch		TIED
bus	es to limit load	ff as necessary and isolate © and of the operative generator.	nd (D)
BATTE	RY FAILUF		BAT 2 AND
		Associated BAT Sw	itch is tripped.
1. Associ	ated Battery S	witch ATTEMPT RESI	ET (TWO MAX)
_	ATTERY /ERHEAT	HOT BAT AND	AND
If battery tem	ated Battery Son perature keeps s soon as poss	· ·	OFF

NOTE

If necessary, the faulty battery may be switched back on for landing, providing the HOT BAT light has gone out.

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(A) GEN 1 or GEN 2, switch has not tripped:

If voltage is greater than 28.5:

- 2. On Line Generator Switch.....OFF
- 3. Volts/Amps......CHECKED

If the voltage is 28.5:

Leave the faulty generator switch

generators.

If voltage is normal (28.5):

- 2. Assoc. Generator Switch.....ATTEMPT RESET (2 MAX)
- If the reset was unsuccessful:
- 3. Assoc. Generator Switch.....OFF

Limit the load on the operative generators.

(B) GEN 3, switch has not tripped:

- 1. Volts and Amps......CHECKED
- 2. Generator Switch......ATTEMPT RESET (2 MAX)

If reset has been unsuccessful:

- 3. Generator Switch......OFF
- 4. Bus Tie Switch......TIED

Limit the load on the operative generators.



(C) GEN 1, GEN 2, or GEN 3 switch has tripped:

CAUTION

Only one reset attempt should be made, and only if the associated battery circuit indicates normal loading, and the idle power requirement does not affect the safety of flight.

1.	. Volts/Amps	CHECKED
2.	Associated Battery Switch	CHECKED/ON
3.	Bus Tie Switch	FLIGHT NORMAL
4.	Associated Power Lever	IDLE
5.	Idle Power	ACHIEVED
6.	Associated Generator Switch	ON
If the	e voltmeter goes to maximum, turn generator switc	ch off.
If uns	successful:	
7.	Faulty Generator Switch	OFF
8.	Bus Tied SwitchTIED IN THE CASE 0	OF GEN 3 FAILURE
9.	Limit the load on the operating generators.	
10.	Associated Power Lever	AS REQUIRED
	Generator Limitations	
	1 Minute	350 AMPS MAX
	Below FL 390	300 AMPS MAX
	Above FL 390	250 AMPS MAX
If suc	ccessful:	
7.	Associated Power Lever	AS REQUIRED

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INVERTER FAILURE AC 1 OR AC 2 THREE INVERTER SYSTEM Aircraft NOT incorporating Simplified Power AC Generation (Modification M1703), and with SB 214 Associated Inverter Switch......OFF 2. Standby Inverter SELECTED TO FAIL SIDE Verify associated inverter fail warning light out. TWO INVERTER SYSTEM Aircraft WITH Simplified Power AC Generation (Modification M1703) Inverter No. 1 Failure: 1. Inverter #1 Switch......OFF Systems inoperative: Copilot RMI · GPWS (If Installed) DFDR (If Installed) · Left electrical rack blower Inverter No. 2 Failure: 1. Inverter #2 Switch......OFF 2. Weather Radar Stabilization Switch OFF Systems Inoperative: Pilot RMI

- · Weather radar antenna stabilization
- · Right electric rack blower
- Glareshield lighting
- CVR (if installed)

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FAILURE OF BOTH INVERTERS

AC 1

AND

AC 2

FOR USE WITH THREE INVERTER SYSTEM ONLY

A/C NOT INCORPORATED WITH MOD 1703 1. AC Bus No.1 and No. 2 Voltage CHECKED 2. Inverter No. 1 and No. 2 Switches...... BOTH OFF 3. Standby Inverter Switch CHECKED (CENTER POSITION) 4. Inverter Switch No. 1ON 6. AC Bus No. 1 Voltage CHECKED If an inverter is recovered; Comply with Inverter Failure procedure; page A-34. If the malfunction persists: 8. Inverter No. 2 SwitchON 9. Inverter No. 2 Fail LightCHECKED 10. Inverter No. 2 Voltage CHECKED If no inverter is recovered: 11. Inverter No. 1 and No. 2 Switches...... BOTH OFF 12. Standby Inverter SwitchAC NO. 1 13. AC No. 1 Bus Voltage......CHECKED

NOTE

The following is inoperative:

- · Autopilot and yaw damper
- VOR 2, LOC 2, MKR 2, ADF 2 information
- LRN, FMS information
- Weather radar
- Hydraulic system No. 2 pressure indication
- · Right radio rack blower

Copilot's side:

- ADI (EADI)
- HSI (or EHSI)
- Flight Director

Pilot's side:

HDG No. 2 information on RMI

ANTI-ICE

ENGINE ANTI-ICE SYSTEM INOPERATIVE



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WITH ASSOCIATED ENG ANTI-ICE SWITCH ON

TAT	-30 to -20°C	-20 to -10°C	-10 to -0°C	0 to +10°C
Minimum N1 speed in cruise condition	84%	81%	78%	73%
Minimum N1 speed in approach condition	78%	78%	78%	73%
One engine inoperative condition	91%	88%	84%	80%

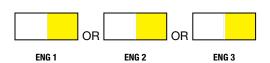
1. N1 Speed Above Minimum Required CHECKED

If amber light remains on:

Avoid icing conditions, or leave icing conditions as soon as possible.

Consult Aircraft Operation In Icing Conditions, Additional Information Tab, Pages AI-3 and AI-4 in normal procedures checklist.

ENGINE ANTI-ICE SYSTEM UNWANTED OPERATION



WITH ASSOCIATED ENG ANTI-ICE SWITCH OFF

With TAT greater than +10° C:

If failure affects No. 1 or No. 3 engine:

- 1. Affected EngineREDUCE RPM AS SOON AS POSSIBLE If failure affects No. 2 Engine:
 - Bleed Air Isolation Switch.....ISOLATION
 - 2. Bleed Air HP2OFF
 - 3. No. 2 Engine RPMREDUCE RPM AS SOON AS POSSIBLE



AIRFRAME ANTI-ICE SYSTEM INOPERATIVE



WITH ASSOCIATED AIRFRAME ANTI-ICE

SWITCH ON NORMAL

N1 Speed Above minimum required.......CHECKED

If amber light remains on:

2. Airframe SwitchSTANDBY

If amber light remains on:

Avoid icing conditions, or leave icing conditions as soon as possible.

Consult Normal Procedures Checklist, Aircraft Operation In Icing Conditions, Additional Information Tab, Pages Al-3 and Al-4 in normal procedures checklist.

AIRFRAME ANTI-ICE SYSTEM UNWANTED OPERATION



WITH ASSOCIATED AIRFRAME ANTI-ICE SWITCH OFF

With TAT greater than +10° C:

ICE PROTECTION—LATE ACTIVATION

PRESSURIZATION/AIR CONDITIONING

HIGH CABIN ALTITUDE OR SLOW DEPRESSURIZATION

CABIN

AURAL WARNING

Cabin altitude higher than 10,000 feet.

1.	. Crew Oxygen Masks	DONNED/NORMAL	
2.	2. Microphone Selector	MASK/TESTED	
3.	3. Crew Bleed Air Switch	ON or AUTO	
4.	. Cabin Bleed Air Switch	ON or AUTO	
5.	. PRV Switch	AUTO	
6.	i. UP-DOWN ControllerBET	WEEN 1 AND 2 O'CLOCK	
7	Cabin Pressure Selector Switch	MANUAL (AS REQUIRED)	
8.	3. UP-DOWN Controller	DOWN (AS REQUIRED)	
If nec	ecessary:		
9.	. No Smoking Sign	ON	
10.	. Passenger Oxygen Masks	DONNED/CHECKED	
11.	. Nose	CLOSED	
12.	. Bag Air	OFF	
If nec	ecessary:		
Execute an Emergency Descent, Emergency Section Tab 5, page E-10, To 14,000 Feet or safe altitude.			

HIGH CABIN PRESSURE DIFFERENTIAL

Continue flight using the crew and cabin switches to maintain a cabin altitude not higher than 8,000 feet, or a cabin differential pressure not greater than approximately 8.5 psi.



IMPROPER CABIN VERTICAL SPEED

1.	1. UP-DOWN Controller Aligned with Green Mark	CHECKED
2.	2. Crew Bleed Air Switch	ON or AUTO
3.	3. Cabin Bleed Air Switch	ON or AUTO
4.	4. PRV Switch	AUTO
5.	5. Cabin Rate Knob ADJUST CABIN	N VERTICAL SPEED
verl	rertical speed cannot be adjusted:	
6.	6. UP-DOWN Controller BETWEEN 1	AND 2 O'CLOCK
7.	7. Cabin Pressure Selector Switch	MANUAL
8.	8. UP-DOWN Controller ADJUST CABIN	N VERTICAL SPEED

NO AUTOMATIC PRESENTATION OF PASSENGER OXYGEN MASKS

1. Oxygen Controller......OVERRIDE

2. Passenger MasksDONNED/CHECKED

CAUTION

DO NOT use the reset pushbutton in flight when oxygen system is operating.

CABIN DOOR UNLOCKED

CABIN

NO AURAL WARNING

On the ground only:

Visually check that all 10 access latches are in proper position and that the interior control handle is properly locked.

If these are NOT properly set; do not take off.

In Flight:

lf

CAUTION

Crew and passengers must remain seated, seatbelts fastened and adjusted.

1.	FASTEN BELTS light pushbutton	ON
2.	Airspeed	REDUCE
3.	Descend	10,000' or safe altitude
4.	Maneuver	use Caution
_	Land as assau as possible	

5. Land as soon as possible

NOTE

In case of unpressurized flight conditions, do not pressurize the airplane.

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CABIN AIR CONDITIONING OVERHEAT

COND'G OVHT

1.	Temperature ControllersN	1ANUAL-COLD
If CO	ND'G OVHT stays on:	
2.	BLEED AIR: CABIN Switch	OFF
If CO	ND'G OVHT stays on:	
3.	BLEED AIR: CABIN Switch	AUTO
4.	BLEED AIR: CREW Switch	OFF
	BLEED AIR OVERHEAT	BLEED OVHT
1.	Bleed Air PRV	OFF
	a. If BLEED OVHT light starts blinking and then goes	s out:
	Leave PRV off and continue flight.	
	b. If BLEED OVHT light starts blinking and continues	s to blink:
	Engine No. 2	IDLE
	c. If BLEED OVHT light remains on and steady:	
	BLEED AIR PRV	AUTO
2.	Successively apply the same procedure for HP1, HP2	2, and HP3.
	Should the light blink and continue to blink, the affect	ted thrust
	should be reduced.	

WINDSHIELD

CRACKED WINDSHIELD PANE

1.	Airspeed	230 KNOTS MAXIMUM
2.	Cabin Differential Pressure	DO NOT EXCEED 7.5 PS
3.	Associated Windshield Heat Switch	NORMAL



WINDSHIELD HEAT SYSTEM MALFUNCTION

XFR

Pilot and Copilot Windshield Heat SwitchesSAME POSITION
 If possible, before landing:

2. Pilot and Copilot Windshield Heat Switches OFF

AUTOPILOT/TRIM

AUTOPILOT FAILURE

ΑP

AND WITH AIRCRAFT EQUIPPED WITH APS 85 AUTOPILOT + AUDIBLE WARNING

1. AutopilotDISENGAGE

AUTOPILOT PITCH TRIM INOPERATIVE

AP TRIM

1. AutopilotDISENGAGE

OUT OF TRIM CONDITION

MISTRIM

Hold the control wheel firmly.

1. AutopilotDISENGAGE

Retrim the aircraft, and attempt to re-engage the autopilot.

MACH TRIM INOPERATIVE

MACH TR

1. Mach Trim Switch.....ON

If mach trim cannot be re-engaged:

Do not exceed 0.78 M without the autopilot engaged.

FLIGHT INSTRUMENTS

PILOT AIR DATA COMPUTER INOPERATIVE

Indication:

20

- AIR DATA light on, and possibly:
- QUNIT, AUTO SLATS, and MACH TR lights on
- VMO/MMO warning horn activated
- · Pilot altimeter and ALT ALERT flags in view

Airplane equipped with one air data computer:

1. AP and YD DISENGAGED

Do not use pilot flight director system vertical modes.

Do not exceed MI = 0.78.

Effects: See Table B, page A-43.

Airplane equipped with two air data computers:

1. Do not use pilot flight director system vertical modes.

2. AIR DATA TRANS Push Switch......ON, AMBER

LOSS OF	INDICATION	REMARKS
Slat Extension prevention at high speed	If AUTO SLATS light is on.	Reduce airspeed to no more than 270 KIAS as soon as possible.
Pilot altimeter indication.	Pilot altimeter flag in view.	Use standby or copilot altimeter.
ATC 1 transponder altitude report		 Switch over to ATC 2 transponder.
Pilot VMO/MMO WARNING:		The second VMO/MMO warning system remains operative
• -5° ANU stabilizer travel limit switch.		Use emergency trim if necessary.
Wind and drift on INS.True airpseed on LRN.	MSG or WRN blinks on LRN.	Enter speed in LRN manually for DR mode.
Mach data to mach trim system.	Possibly, MACH TR light on if MI is higher than 0.78	Refer to: Mach Trim Inoperative. (Page A-41)

If AIR DATA light goes out:

Effects:

TABLE A

If AIR DATA light stays on:

- 3. AIR DATA TRANS Push Switch.....OUT
- 5. Do not exceed MI = 0.78

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Continued on Next Page

Revision 5



Effects:

TABLE B

IADLE D				
LOSS OF	INDICATION	REMARKS		
ARTHUR unit monitoring.	Possible Q UNIT light on.	Refer to: Arthur Unit Inoperative.		
Slat extension prevention at high speed.	If AUTO SLATS light is on.	Reduce airspeed to no more 270 KIAS as soon as possible.		
ALTITUDE INDICATION: A/C with one ADC Pilot altimeter indication. ATC 1 transponder altitude report A/C with two ADC	Pilot altimeter flag in review.	 Use standby or copilot altimeter. Switch over to ATC 2 transponder, if copilot has encoding altimeter. 		
Pilot and copilot altimeters.ATC 1 and 2 transponder altitude report.	Pilot and copilot altimeters flag in view.	Use standby altimeter.		
Altitude Monitoring System	ALT ALERT flag in view.			
VMO/MMO WARNING: A/C with one ADC • Pilot system.		The second warning system remains operative (if SB F50-11 is incorporated		
A/C with two ADC • Pilot and copilot systems.				
5° ANU stabilizer travel limit switch		Use emergency trim if necessary		
Outside air temperature indications (SAT/TAT)		Avoid areas of known icing conditions		
		Increase fuel consumption in ISA conditions by 5%.		
		Set engine parameters for cruise at constant Mach No in ISA conditions.		
True airspeed indication.Wind and drift on INS.True airspeed on LRN.	MSG or WRN blinks on LRN.	Enter speed in LRN manually for DR mode.		
Mach data to mach trim system.	Possibly, MACH TR light on if MI is higher than 0.78	Refer to: Mach Trim Inoperative. (Page A-41)		

PILOT AIR DATA COMPUTER INOPERATIVE (Cont)

Aircraft equipped with Mod 1610 incorporated:

Indication:

- ADC 1 light on, and possibly
- QUNIT, AUTO SLATS, and MACH TR. lights on
- VMO/MMO warning horn activated
- Pilot altimeter and ALT ALERT flags in view
- Do not use pilot flight director system vertical modes.
- Press the pilot ADC 1 pushbutton light:

EFFECTS

LOSS OF	INDICATION	REMARKS
Slat Extension prevention at high speed	If AUTO SLATS light is on.	Reduce airspeed to no more than 270 KIAS as soon as possible.
Pilot VMO/MMO WARNING:		The second VMO/MMO warning remains operative (copilot).
Horizontal stabilizer deflection at low speeds: deflection limited to -5°		Use emergency trim if necessary.
Mach data to mach trim system.	Possibly, MACH TR light on if MI is higher than 0.78	Refer to: MACH TRIM INOPERATIVE.
True airspeed data to corresponding LRN.	MSG or WRN blinks on LRN.	Manually enter speed in LRN.
Pilot mach airspeed and airspeed bug.	Pilot mach airspeed flag	



Aircraft equipped with Mod 1610 incorporated:

Indication:

- ADC 2 light on, and possibly
- AUTO SLATS lights on
- VMO/MMO warning horn activated
- · Copilot altimeter and ALT ALERT flags in view
- Do not use pilot flight director system vertical modes.
- Press the copilot ADC 2 ADC 1 pushbutton light:

 - 2. XADC Annunciator on Copilot EADI CHECKED

EFFECTS

LOSS OF	INDICATION	REMARKS
Slat Extension prevention at high speed	If AUTO SLATS light is on.	Reduce airspeed to no more than 270 KIAS as soon as possible.
Copilot VMO/MMO WARNING:		The first VMO/MMO warning remains operative (pilot).
True airspeed data to corresponding LRN.	MSG or WRN blinks on LRN.	Manually enter speed in LRN.
Copilot mach airspeed and airspeed bug.	Copilot mach airspeed flag.	
Speed indication on EFIS.		

PITOT STATIC

PILOT PITOT-STATIC SYSTEM MALFUNCTION

CAUTION

Inaccurate airspeed and/or altitude indications.

- LPITOT light possibly on.
- 1. Static Selector Switch EMERG

If pilot indications become consistent with copilot's:

- Loss of standby altimeter and rate-of-climb.
- Use other pilot instruments.

If pilot indications remain inaccurate:

- Loss of pilot altimeter, mach airspeed indicator and air data computer.
- Use copilot's indicators.

COPILOT PITOT-STATIC SYSTEM MALFUNCTION

CAUTION

Inaccurate airspeed and/or altitude indications.

- QUNIT light possibly on.
- R PITOT light possibly on.
- 1. PITOT-STATIC SELECTOR.....PANEL ONLY

The selection of the PANEL ONLY position causes the loss of:

- · Both Arthur units
- Warning horn for landing gear not locked down at speeds below 160 KIAS.
- · Cabin differential pressure indications

NOTE

The loss of the copilot pitot-static system causes the yaw damper to disengage.



FLIGHT WITH SUSPECTED BLOCKED PITOT PROBES

WARNING - Frozen or abnormal pilot, copilot and possibly standby IAS / MI indications and possibly:

- AIRSPEED INDICATORS PERFORM LIKE ALTIMETERS (decreasing in descent and increasing in climb),
- Illumination of one or both following lights:

 QUNIT AUTO SLATS
- VMO / MMO audio warning sounds,
- IAS miscompare flag on EADI (if any),
- AP disengagement,
- Disagreement with stand-by IAS / MI indications,
- In cruise / level flight: unusual pitch trim activity.

WARNING

INAPPROPRIATE FLIGHT DIRECTOR GUIDANCE MAY BE ACTIVATED. DO NOT FOLLOW CORRESPONDING FD.

CAUTION

Stall aural warning remains reliable.

- Do not apply SLAT MONITORING SYSTEM MALFUNCTION procedure (Yellow Tab 9).

LEVEL FLIGHT

- 1. Pitch attitude Between 2° and 4° nose up
- Avoid large displacements and rapid movements of control surfaces.

Set N1 as indicated in the table below, corresponding to MI = 0.75 (assumed temperature is ISA -10°C):

Flight Level	Weight	N1	Pitch Attitude
FL 490	24,000 lb	97%	
FL 490	22,000 lb	95%	
FL 450	30,000 lb	97%	
FL 450	22,000 lb	92%	
	38,000 lb	98%	Between 1 and 4 degrees nose up
FL 410	30,000 lb	93%	
	22,000 lb	91%	J., 5
	38,000 lb	94%	
FL 370	30,000 lb	91%	
	22,000 lb	90%	

LEVEL FLIGHT (cont'd)

STATUS (2 BLOCKED PITOT PROBES):

INOPERATIVE / UNRELIABLE ITEMS	OPERATIVE / RELIABLE ITEMS				
Basic fight parameters					
IAS / MI / TAS on both ADI and on stand-by instrument.	IRS Ground Speed in FMS CDU. GPS Ground Speed in FMS CDU.				
	Pitch and roll attitude on both ADI.				
Altitude reportedby XPDR mode C.	Altitude displayed on both altimeters and stand-by instrument (max error +/- 600 ft). GPS altitude in NZ2000 FMS CDU (if any). VS on both VSI.				
SAT, ISA deviation	TAT. Temperature data provided by AFIS / Operational flight plan / Weather briefing.				
	Heading and Track.				
	Wind data provided by AFIS / Operational flight plan / Weather briefing.				
Warı	nings				
VMO / MMO audio warning					
Gear aural warning. Stall aural warning if AUDIO WARN C/Bs pulled					
Flight o	controls				
Automatic Slats extension.	Stall protection: Automatic Slat Extension; IGN on.				
Roll Arthur position inconsistent with actual true flight condition.	Pitch Arthur (Arthur setting dependent on the Pressure (Pt) Measurement by the #1 Engine Probe.				
Automatic flight control system					
AP, FD, and YD					
Mach Trim					
Engine					
	Engine primary parameters (N1, ITT, N2, FF) and controls.				
Airplane Systems					
All systems controls and displays					

 After a positive identification of the malfunction, continue the flight while complying with the following procedures for climb and descent phases:

CLIMB

CAUTION

Do not re-engage AP or YD before pitot probes unblocking.



Avoid large displacements and rapid movements of control surfaces.
4. N1 speedClimb power as per Performance Manual 4-50
5. Pitch attitude Between 4° and 5° nose up
If vertical speed drops below 100 ft / min:
6. AirplaneLevel off
If VMO / MMO audio warning sounds:
7. AUDIO WARN A / AUDIO WARN B circuit breakers Pulled
CAUTION
All audio warnings (STALL included) are inoperative except TCAS aural warning.
DESCENT
Initiating the descent earlier than scheduled to recover non icing conditions is let to pilot's discretion.
CAUTION
If IAS goes down to 50 kt due to blocked pitot probes, expect loss of airspeed dispaly on both EADI (if any):
 Do not apply PILOT AIR DATA COMPUTER INOPERATIVE procedure.
 Do not apply COPILOT AIR DATA COMPUTER INOPERATIVE procedure.
 Use ADI attitude and the stand-by altimeter unti pitot probes unblocking.
1. APDISENGAGED
2. YDDISENGAGED
CAUTION
Do not re-engage AP or YD before pitot probes unblocking.
 Avoid large displacements and rapid movements of control surfaces.
4. Start selector switches (all 3)AIR START
ANTI-ICE:
5. ENG 1 and ENG 3 ANTI-ICE switchesON30 seconds later:
ENG 2 ANTI-ICE switchON
- 30 seconds later:
AIRFRAME ANTI-ICE switchNORMAL
6. N1 speed See table below

	TAT	Between -30°C and -20°C	Between -20°C and -10°C	Between -10°C and 0°C	0°C and above
I	N1	84%	81%	78%	73%

- 7. Airbrake handle......Position 1
- 8. Pitch attitudeBetween 0° and 2° nose down
- 9. Vertical speed indicator Between -2,000 and -3,000 ft / min

NOTE

An indicated airspeed increasing in descent is a good evidence of the pitot probes unblocking.

NOTE

Descent should cause airspeed and total air temperature to increase thereby facilitating the pitot probes unblocking and a return to correct IAS indication after about 2 minutes.

NOTE

- Check airplane altitude frequently on the stand-by altimeter.
- If prior to the problems, flight was performed at a static temperature lower than the authorized mini mum limit (see 1-15-9), descend as soon as possible until air-data indications are back to normal.
- 10. After return to unblocked pitot probes situation, wait 1 more minute then:
 - AP and YD.....As required
- 11. AUDIO WARN A / AUDIO WARN B circuit breakers...... Re-engaged
- 12. TCAS......NORMAL Checked
- 13. Start selector switches (all 3)......NORMAL
- 14. Airbrake handle......As required

ANTI-ICE:

- ANTI-ICE ENG 2 switch......As required
- ANTI-ICE AIRFRAME switchAs required



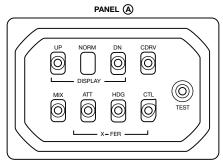
EFIS

EFIS MALFUNCTIONS

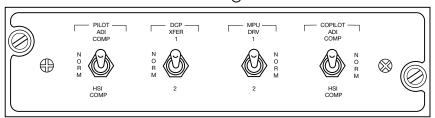
NOTE

These checklists are applicable to Collins EFIS 85/86 systems.

Various types of avionics equipment may be installed in this aircraft, and specific warning/comparator flags, annunciators, and switches, described herein, may not appear in certain installations. Consult the *Aircraft Flight Manual Supplement* for data relating to specific equipment installation.



PANEL B



EADI DISPLAY FAILURE

Indication: Display goes out or color is altered.

1. Display Reversion SwitchDOWN

EHSI DISPLAY FAILURE

Indication: Display goes out or color is altered.

1. Display Reversion Switch UP

SIMULTANEOUS FAILURE OF EADI AND EHSI DISPLAYS ON SAME SIDE

Indication: both displays go out or color is altered, Red FAIL or DRV flag on the EADI and EHSI.

- 1. Select CDRV or MPU DRV on failed side.
- 2. AMBER CDRV flag displayed.

If unsuccessful:

Select MIX or ADI COMP or HSI COMP.

SUCCESSIVE FAILURE OF EADI AND EHSI DISPLAYS ON SAME SIDE

Indication: Both displays successively go out.

If panel A is installed:

- 1. Select CDRV on failed side.
- 2. Select MIX on failed side.

If panel B is installed:

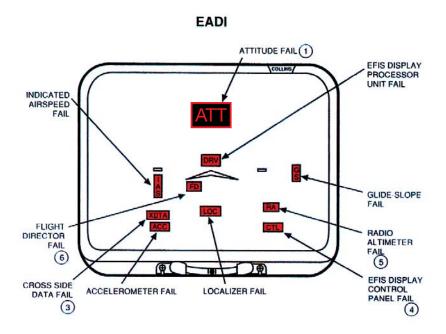
- 1. Select MPU DRV on the failed side.
- 2. Select ADI COMP or HSI COMP on failed side.

NOTE

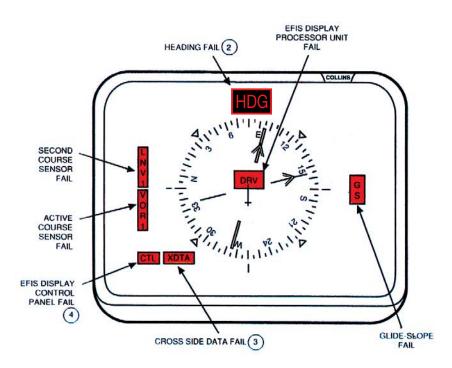
A composite ADI/HSI will be displayed on the Multi-Function Display (MFD).



FAILURE MONITOR FLAGS (ALL RED)



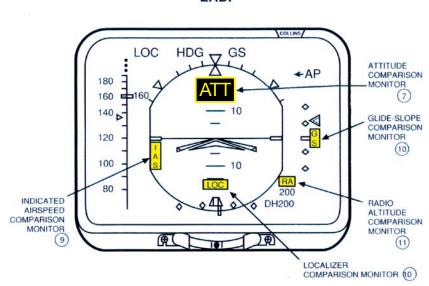
EHSI



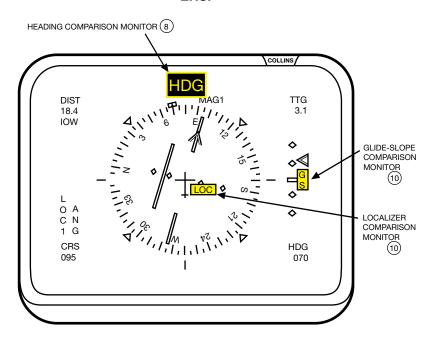
COLLINS EFIS

COMPARISON FLAGS (ALL AMBER)

EADI



EHSI



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1	ATTITUDE FAILURE			
Indications: Red	flog on EADI			
	III flag on EADI ttitude reference.			
	vitchSELECTED			
	AnnunciatorILLUMINATED			
(2)	HEADING FAILURE			
Indications: Red HD	flag on EHSI			
Displayed heading m	ay be incorrect.			
1. HDG Transfer S	SwitchSELECTED			
2. HDG# or MAG#	AnnunciatorILLUMINATED			
MPU FAILURE (MULTI-FUNCTION DISPLAY PROCESSOR UNIT)				
Indications: MFD Disp	olay goes out			
Red XDTA flag on both EADIs				
	CAUTION			
 Pilots are synchron 	nd copilots HDG bugs are no longer zed.			
 Comparis 	on monitors are inoperative.			
1. MPU DISC or N	ADLLEAU			
	led)DEPRESS AND ILLUMINATED AMBER			
If red XDTA flag stays	s on, or if the MPU switch is not installed,			
2. MFD Power	OFF			
NOTE				
The	ere is no backup for a MPU failure.			

(4) DCP FAILURE (DISPLAY CONTROL PANEL)

Indications: Red CTL or DCP flags on the associated EADI and EHSI

1. CTL XFER or DCP XFER......SELECTED

XDCP or XCTL annunciators illuminated.

NOTE

- All the displays will be controlled by the operational DCP.
- FD modes are not annunciated on the side with the failed DCP.
- Display brightness remains under control of the failed DCP.

(5) RADIO ALTIMETER FAILURE

For aircraft with dual radio-altimeters, consult procedure A, or for aircraft with single radio-altimeter, consult procedure B.

PROCEDURE A.

Indications: Red RA flag on EADI

1. Radio Altimeter

Transfer Switch....SELECTED TO FUNCTIONAL RADIO ALTIMETER

Red RA Flag OUT

PROCEDURE B.

Indication: Red RA flag on both EADIs

NOTE

No Backup. Consequences:

- Loss of Radio Altimeter Display
- Loss of DH Warning
- Loss of GPWS (Ground Proximity Warning System)
- Loss of Rising Runway symbol

NOTE

Consult Aircraft Flight Manual for possible autopilot minimum altitude limitation with the radio-altimeter inoperative.



FLIGHT DIRECTOR FAILURE (6) Indication: Red FD fail, command bars removed If FD #1 fails, and the autopilot is required: 1. AP XFR Switch.....SELECTED NOTE The autopilot will now follow commands from the copilots flight director. (7` ATTITUDE COMPARISON MONITOR or PIT or ROL flags on both EADIs, Indications: Amber ATT MSTR COMP lights illuminated 1. AutopilotDISENGAGE 2. Standby Horizon......CHECKED 3. Faulty Attitude Source.....IDENTIFY 4. Attitude Transfer Switch (Faulty Side)......DEPRESS 5. XATT or ATT # Annunciator ILLUMINATED 6. Master Comparators......RESET 7. Autopilot RE-ENGAGE (8) **HEADING COMPARISON MONITOR** Indications: Amber HDG flags on both EHSIs MSTR COMP light illuminated 1. Standby Compass......CHECKED 2. Faulty HDG Source.....IDENTIFY 3. HDG Transfer Switch (Faulty Side)DEPRESS 4. XHDG or HDG # Annunciator......ILLUMINATED 5. Master Comparators.....RESET

9 IAS COMPARISON MONITOR
Indication: Amber IAS flags on both EADIs
Standby Airspeed IndicatorCHECK
2. Faulty Airspeed IndicatorIDENTIFY
10 LOC OR GS COMPARISON MONITOR
Indication: Amber Loc or GS flags
1. Faulty NAV SourceIDENTIFY
2. Functional NAV SourceSELECTED TO BOTH SIDES
NOTE
If operationally feasible, discontinue the approach for any comparison monitor flag.
11 RA COMPARISON MONITOR
*Aircraft with dual radio altimeters only
Indications: Amber RA flags on EADIs
1. Faulty Radio AltimeterIDENTIFY
Radio Altimeter Transfer SwitchSELECTED TO FUNCTIONAL RADIO ALTIMETER



QUICK REFERENCE

MASTER WARNING INDICATIONS	1
LANDING DISTANCE/LANDING FIELD LENGTH ADDITIVES	2
ELECTRICAL—KEY BUS ITEMS DUAL-FUNCTIONING CIRCUIT BREAKERS	3
GROUND/FLIGHT SWITCHES FUEL CONVERSION CHART	
28V DC BUS BAR CONSUMERS	4
SINGLE POINT PRESSURE REFUELING (DA-50) SINGLE POINT GRAVITY REFUELING CHECKLIST (DA-50)	5
REFUELING WITH FULL WING TANKS CHECKLIST (DA-50) TO MOVE FUEL FROM THE FEEDER TANKS TO THE WING TANKS (DA-50)	6
SCHEMATICS	7

EMERGENCY PROCEDURE ANNUNCIATORS
ABNORMAL PROCEDURE ANNUNCIATIORS



QUICK REFERENCE

MASTER WARNING INDICATIONS



- 1. Slats not extended.
- 2. Flaps beyond 22°.
- 3. Airbrakes not stowed.
- 4. Stabilizer trim not in takeoff range $(-3^{\circ} \text{ to } -7^{\circ})$.
- 5. Autopilot ON.
- 6. Parking brake (SB 240) ON.

FUELING

- 1. Bus D OFF.
- 2. Gravity Fueling switch ON.
- 3. Fueling door open.
- 4. Vent valve handle not stowed.
- 5. Defueling switch ON.
- 6. C/B in rear compartment OUT
- 7. Any 1 of 3 air vent valves not closed.

APU BLEED

1. APU BLEED Valve is open when it has been commanded to close.

LANDING DISTANCE/LANDING FIELD LENGTH ADDITIVES

If landing with Slats + 48 Flaps, use the Slats + 48 Flaps landing charts and apply additives to this landing data. If landing with less than Slats + 48 Flaps, use the Slats + 20 Flaps landing charts and apply additives to this landing data. Antiskid corrections are applied to the basic landing data first before applying all other additives.

E	Emergency	Checklist
	Lillergency	CHECKIISE

(A) Abnormal Checklist

Malfunction.....LND DIST/LND FLD LNTH

Loss of Both Hydraulic Systems, Assumes a Clean Wing, VREF + 30 KT

- 1. No Antiskid30%/30%
- 3. No Airbrakes...... 600/1,000 FEET

To land in CLEAN configuration:

- 1. Check AFM whether speed VREF + 30 kt is less than VMBE.
- In that case, landing distance is increased by 3,000 ft/914m and the landing field length by 5,000 ft/1,524m.
- If not, braking cannot be initiated until the speed has decreased below VMBE: Add to the above figure an extra landing distance of 280 ft/85m (470 ft/143m for landing field length) for each knot of difference between VREF + 30 kt and VMBE.

Approach and Landing, 2 Engines Inoperative

- 1. Slats Only, VREF + 20 KT 1,400/2,300 FEET
- 2. S + 20 Flaps, VREF + 10 KT...... 180/300 FEET

Approach and Landing, One Engine Inoperative

- 1. S + 20 Flaps, VREF + 5 KT CHART/CHART DATA

A Loss of #1 Hydraulic System

- 1. No Antiskid:
- a. S + 20 Flaps......30%/30%
- b. S + 48 Flaps......25%/25%
- 2. Emergency Slats + 48, VREF + 5 KT 180/300 FEET
- 3. Emergency Slats + 20, VREF + 10 KT 180/300 FEET

A Loss of #2 Hydraulic System

- 1. No Airbrakes 600/1,000 FEET
- 2. Slats Only, VREF + 20 KT 1,400/2,300 FEET



A	Airbrakes Do Not Retract
1.	With Airbrakes in Position 1:
	a. S + 20 Flaps, VREF + 15 KT
	b. S + 48 Flaps, VREF + 10 KT 480/800 FEET
2.	With Airbrakes in Position 2:
	a. S + 20 Flaps, VREF + 20 KT
	b. S + 48 Flaps, VREF + 15 KT 480/800 FEET
A	Flap Asymmetry
1.	S + Up to 20 Flaps, VREF + 20 KT 1,400/2,300 FEET
2.	S + 20 to 48 Flaps, VREF + 5 KT CHART/CHART DATA
A	Elevator Inoperative Landing
1.	S + 20 Flaps, VREF + 15 KT
2.	S + 48 Flaps, VREF + 10 KT
A	Stabilizer Inoperative Landing
1.	If Stab is +1 to -5 Degrees:
	a. S + 20 Flaps, VREF + 20 KT
2.	If Stab is -5 to -11 Degrees:
	b. S + 48 Flaps, VREF CHART/CHART DATA

ELECTRICAL-KEY BUS ITEMS

DUAL-FUNCTIONING CIRCUIT BREAKERS

BUS A

- 1. LANDING GEAR CONTROL
- 2. AIRBRAKE CONTROL
- 3. NORMAL PITCH TRIM
- 4. CENTRAL ADC
- 5. HP 1 & 2 & PRV
- 6. ANTI-ICE ENGINES 1 & 2
- 7. FIRE DETECTION ENGS. 1, 2, BAGGAGE & AFT COMPARTMENT
- 8. #2 BRAKES
- 9. GAGES ENGINES 1 & 2
- AUTO PRESSURE CONTROL AND DUMP CIRCUIT
- 11. STANDBY HYDRAULIC PUMP CONTROL
- 12. SLATS INDICATOR
- 13. THRUST REVERSER
- 14. PILOT'S INVERTER

BUS C

- 1. NOSE WHEEL STEERING
- 2. TRIM INDICATOR
- 3. AILERON TRIM
- 4. COCKPIT TEMPERATURE CONTROL
- 5. #1 HYDRAULIC QUANTITY INDICATOR
- 6. FUEL X-FEED 1-2
- 7. STBY AIRFRAME ANTI-ICE
- OIL PRESS/TEMP GAGE #1 AND #2

BUS B

- 1. EMERGENCY SLATS
- 2. EMERGENCY PITCH TRIM
- 3. MACH TRIM
- 4. ANTISKID
- 5. ISOLATION VALVE
- 6. HP 3
- 7. STANDBY INVERTER
- 8. FLAP/AIRBRAKE INDICATOR
- 9. FUEL SYSTEM INTERCONNECT
- 10. COPILOT'S INVERTER
- 11. #3 ENG ANTI-ICE
- 12. FIRE DETECTION-#3 ENG., APU
- 13. NORMAL AIRFRAME ANTI-ICE
- 14. GAGES ENGINE 3

BUS D

- 1. FLAPS
- 2. RUDDER TRIM
- 3 CABIN TEMPERATURE CONTROL
- #2 HYDRAULIC QUANTITY INDICATOR
- 5. FUEL X-FEED 2-3
- 6. EMERGENCY AILERON TRIM
- 7. OIL PRESS/TEMP GAGE #3

PRIMARY (LABELED)

ST-BY PUMP

ENG 2

HP BLEED 3

RH AUTO SLATS

TRANSFER INTERCOM

SECONDARY

BRAKE SELECTOR

PRV + H.P. 2

ISOLATION VALVE

EMERGENCY SLATS

EMERGENCY FUEL TRANSFER

Revision 9.0

(SB 175)

QR-4



GROUND FLIGHT SWITCHES

LEFT MAIN GEAR	NOSE GEAR	RIGHT MAIN GEAR	
Switch No. 1	Switch No. 1	Switch No. 1	
Stall No. 1 Test Stall warning flight—left	Landing gear control solenoid	Stall No. 2 Test Stall warning flight-right	
vane Standby hydraulic pump	Switch No. 1 or 2	vane	
Switch No. 2	Nosewheel steering amplifier	Switch No. 2	
Air-conditioning valve		Air-conditioning valve	
control Air data computer APU ground flight relay Battery blower Cabin pressurization Engine-starting relays Landing gear control solenoid Nose fan control Single-point refueling Standby horizon Takeoff warning	Switch No. 1 and 2 Brake control antiskid Engine No. 2 fail-ground	control Air data computer APU ground/flight relay Battery blower Cabin pressurization Engine starting relays INS Nose fan control Standby horizon Single-point refueling Takeoff warning Thrust reverser—ground	
Thrust reverser—ground only		only	

FUEL CONVERSION CHART

JET FUEL-6.75 POUNDS AT 60° F

Gallons	Liters	Weight	Gallons	Liters	Weight	Gallons	Liters	Weight
50	189	338	1050	3974	7088	2050	7759	13838
100	378	675	1100	4163	7425	2100	7948	14175
150	568	1013	1150	4353	7763	2150	8138	14513
200	757	1350	1200	4542	8100	2200	8327	14850
250	946	1688	1250	4731	8438	2250	8516	15188
300	1135	2025	1300	4920	8775	2300	8705	15525
350	1325	2463	1350	5110	9113	2350	8895	15863
400	1514	2700	1400	5300	9450	2400	9084	16200
450	1703	3038	1450	5488	9788	2450	9273	16537
500	1892	3375	1500	5677	10125	2500	9462	16875
550	2082	3713	1550	5867	10463	2550	9652	17212
600	2271	4050	1600	6056	10800	2600	9841	17550
650	2460	4388	1650	6245	11138	2650	10030	17887
700	2650	4725	1700	6434	11475	2700	10219	18225
750	2839	5063	1750	6623	11813	2750	10409	18562
800	3028	5400	1800	6813	12150	2800	10598	18900
850	3217	5738	1850	7002	12488	2850	10787	19237
900	3406	6075	1900	7191	12825	2900	10976	19575
950	3596	6413	1950	7381	13163	2950	11166	19912
1000	3785	6750	2000	7570	13500	3000	11355	20250

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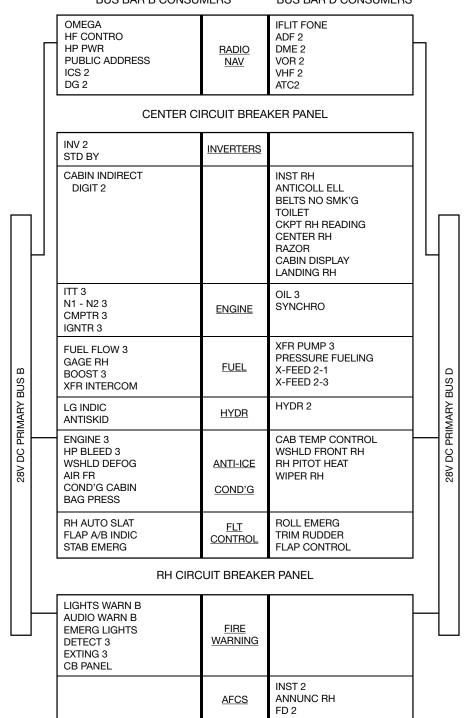
OVERHEAD CIRCUIT BREAKER PANEL **BUS BAR A CONSUMERS** BUS BAR C CONSUMERS INS ADEU DC 1 VHF 1 ADF 1 ATC 1 RAD ALT **RADIO** WEATHER RADAR DME 1 <u>NAV</u> TAPE VOR 1 ICS₁ CENTER CIRCUIT BREAKER PANEL INST LH CENTER I H GALLEY LANDING LH **OVERHEAD** CABIN READING **CREW SEATS** ANTICOL FIN LIGHTS **CKPIT READING STROBE MISC** DIGIT 1 NAV INV 1 **INVERTER IGNITER AUTO** ITT 2 OIL 1 N1-N2 2 **REVERSE** OIL 2 CONTROL CPTR 2 REVERSE WARN **IGNTR 2** ITT 1 **ENGINE** N1-N2 1 CPTR 1 **IGNTR 1** BOOST 1 **FUEL FLOW 2** XFR 1 BOOST 2 **GAGES CENTER** XFR 2 **FUEL FUEL FLOW 1** BUS (PRIMARY BUS **GAGES LH** DC AUXILIARY CABIN PRESS STD-BY AIR FR WSHLD FRONT LH LH PITOT HEAT **ENGINE 2** AFT SIDE WINDOW CKPT TEMP CONTROL WIPFR I H HP BI FFD ANTI-ICE **CABIN TEMP ENGINE 1** DV WINDOW 2 NOSE FAN COND'G CREW CKPT FLOOR HEATING 28V 287 LG CONTROL NOSE WHL **HYDR** STD-BY PUMP HYDR 1 LH AUTO SLAT A/A INDIC A/R CONTROL <u>FLT</u> Q UNIT SLAT INDIC TRIM INDIC **CONTROL** STAB NORMAL TRIM AILERON RH CIRCUIT BREAKER PANEL LIGHTS WARN A-B **ENGINE FAIL 2** LIGHTS WARN A DETECT 1 AUDIO WARN A **FIRE** DETECT 2 **BAT TEMP** EXTING 1-2 **WARNING** REAR CMPT **BAG COMPT** AIR DATA AIR DATA AIR DATA EXT TEMP FLIGHT RECORD A/P RUD A/P ELV **AFCS** A/P AIL A/P CMPTR HRZN STD-BY PWR INST 1 ANNUNC LH COMPAR FD₁

DISTRIBUTION OF THE 28V DC BUS BAR A AND C CONSUMERS

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OVERHEAD CIRCUIT BREAKER PANEL BUS BAR B CONSUMERS BUS BAR D CONSUMERS



DISTRIBUTION OF THE 28V DC BUS BAR B AND D CONSUMERS

SINGLE POINT PRESSURE REFUELING (DA-50)

1.	Refueling Panel Door	OPEN				
2.	Refueling Coupling Cover	REMOVE				
3.	Single Point Refueling	CONNECT				
4.	Wing Tank Refueling Switches	ON				
5.	Rear Tanks Switch	HIGH				
	NOTE					
Assure red "Stop Fueling" light is out and green "Fueling O.K." light is illuminated.						
6.	Start Refueling PUMPING PRES	SS. 30-50 PSI				
7.	Refueling Test Lever(When Fuel Truck Meter Stops, Rotate Lever Back to C					
8.	Rear Tanks Switch	LO				

NOTE

If full load is desired switch rear switch to HI after fuel truck meter stops.

When Tanks are Filled to Desired Level

1.	All Switches	OFF
2.	Refueling Nozzle	DISCONNECT
3.	Refueling Coupling Cover	INSTALL
4.	Vent Valve Control Lever	DOWN
5.	Refueling Panel Door	CLOSED



SINGLE POINT GRAVITY REFUELING CHECKLIST (DA-50)

NOTE

Unlock and remove the left wing tank filler port cap. Insert fuel nozzle and start pumping. The following steps need to be accomplished in order to move fuel from left wing tank to the center wing, right wing and feeder tanks.

Interior Setup

1.	APU or GPU	ON
2.	Gravity Refueling Switch	ON
3.	Left Transfer Pump	ON
4.	Left Boost Pump	ON
5.	Left Crossfeed	OPEN
Refu	ıeling Panel Setup	
6.	Defueling Switch	ON
7.	Right Wing Tank Refueling Switch	ON
Afte	r Refueling Check-Interior	
1.	Gravity Refueling Switch	OFF
2.	Left Transfer Pump	OFF
3.	Left Boost Pump	OFF
4.	Left Crossfeed	CLOSED
Refu	ıeling Panel Setup	
5.	Defueling Switch	OFF
6.	Right Wing Tank Refueling Switch	OFF
7.	Refueling Panel Door	CLOSED

FOR TRAINING PURPOSES ONLY

REFUELING WITH FULL WING TANKS CHECKLIST (DA-50)

NOTE

These procedures are intended to avert fuel spills on the ramp and a continuous STOP FUELING light on the refueling panel when venting the tanks.

The in flight procedure is for use after a short flight and the center feeder tank has not decreased to regulation level and more fuel needs to be added for the next leg of the flight. This procedure should be performed inflight.

The On Ground procedure is for the same situation except, the crew is unaware that more fuel is needed for the next flight until the aircraft is on ground and the engines are shut down.

Inflight Procedure

On Ground Procedure

NOTE

Aircraft must have a continuous power source for the on ground procedure. Don't use battery power for this operation.

2.	Center Wing Tank Transfer PumpON
3.	Emergency Transfer SwitchLEFT/RIGHT (Hold in each position until lateral feeder tank quantity rises 250lb.)
4.	Center Wing Tank PumpOFF
5.	Fuel Transfer IntercomsBOTH CLOSED

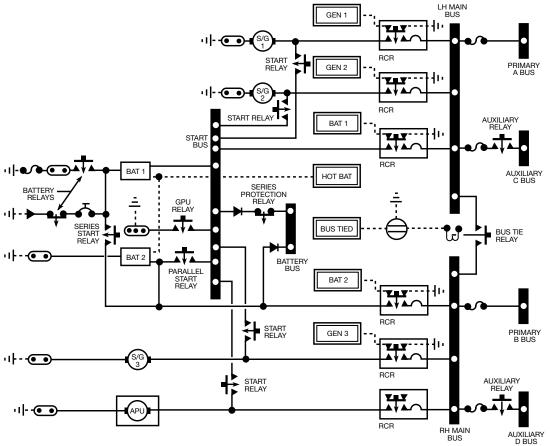
Fuel Transfer Intercoms BOTH OPEN



TO MOVE FUEL FROM THE FEEDER TANKS TO THE WING TANKS (DA-50)

1.	APU or GPU	START		
2.	Refueling Panel Door	OPEN		
3.	Vent Valve Control Lever(Assure green FUELING OK light is illuminated.)	UP		
4.	Wing Tank Refueling Switches	ON		
5.	Defueling Switch	ON		
6.	Left & Right Crossfeeds	OPEN		
7.	All 3 Boost Pumps	ON		
When Finished				
1.	All 3 Boost Pumps	OFF		
2.	Left & Right Crossfeeds	CLOSED		
3.	Defueling Switch	OFF		
4.	Wing Tank Refueling Switches	OFF		
5.	Vent Valve Control Lever	DOWN		
6.	Refueling Panel Door	CLOSED		

ELECTRICAL SCHEMATIC



HYDRAULIC

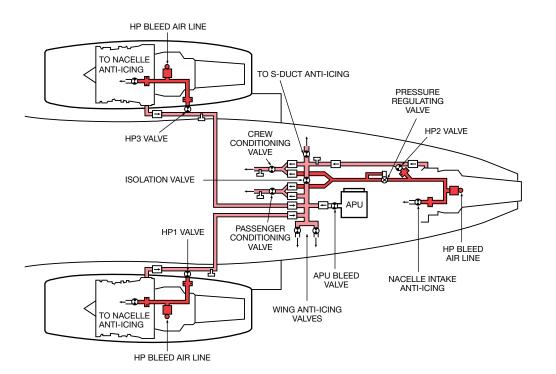
SCHEMATIC

LEFT WING RIGHT WING 3,748 LB 3,748 LB **CENTER WING** 2,749 LB JET PUMP-ON RV OFF FUEL UNDER PRESSURE TRANSFER **PUMP** FUEL UNDER SUCTION **TRANSFER** MANIFOLD XFR PRESSURE **SWITCH** XFR INTERCOM **SWITCH** 1404 LB 2460 LB 1404 LB **TRANSFER** VALVE 1750 LB 609 LB 609 LB

FALCON 50 EMERGENCY/ABNORMAL CHECKLIST

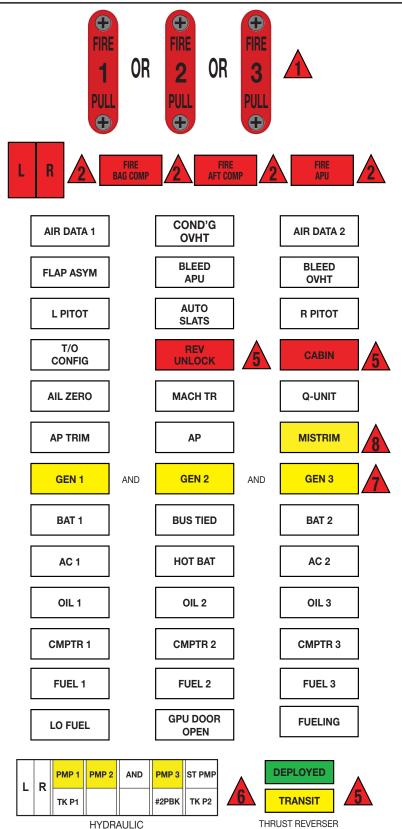
FUEL

SCHEMATIC

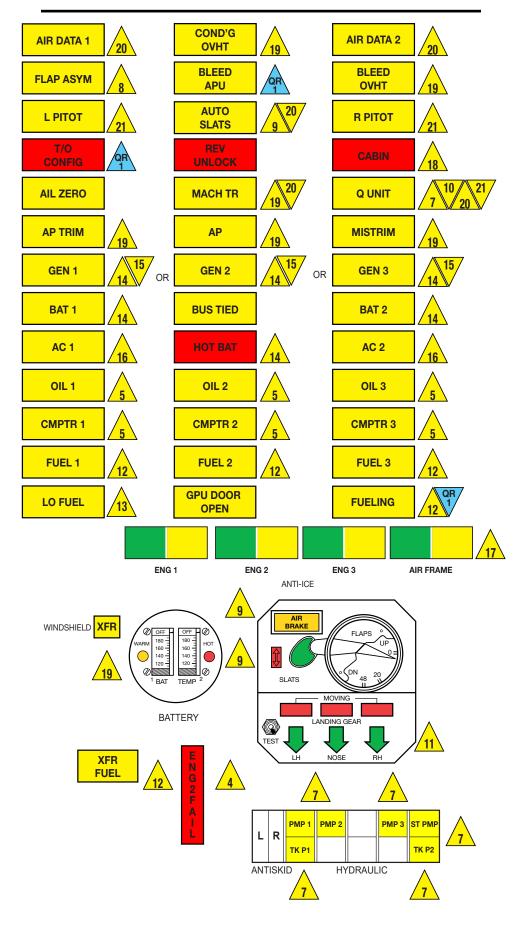




EMERGENCY PROCEDURE ANNUNCIATORS



Revision 9.0



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