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B-727 AOM VOL I EMERGENCY/ABNORMAL PROCEDURES



Date: 15-NOV-15

V-13

LANDING GEAR EMERGENCY PROCEDURES

MANUAL GEAR EXTENSION

Use of this procedure is indicated by an indication other than normal indication of gear down and locked.

Both Hydraulic System "A" Pumps	OFF	FE
Landing Gear Lever	OFF	PNF
Keep lever in OFF position until manual extension is con	mpleted.	
Airspeed	270 KNOTS OR LESS	PF
Landing Gear	EXTEND MANUALLY	FE

If necessary, rotate the aft Observer's seat 90° to allow clearance for the crank handle.

Obtain the hand crank and open the access panel of the gear to be extended and read the instructions on the inner face of the panel. Insert the crank in the socket and follow the placarded instructions.

The placard instructions are printed below for convenience:

Left Gear:

- 1. Rotate slowly clockwise y 2 ½ turns.
- 2. Pause five seconds.
- 3. Continue to rotate clockwise y to the mechanical stop.
- 4. Rotate counterclockwise **z** to the mechanical stop (approximately four turns).

Right Gear:

- 1. Rotate slowly counterclockwise z 2 ½ turns.
- 2. Pause five seconds.
- 3. Continue to rotate counterclockwise z to the mechanical stop.
- 4. Rotate clockwise y to the mechanical stop (approximately four turns).

Nose Gear:

- 1. Rotate clockwise y until the gear extends (approximately two to three turns).
- 2. Rotate counterclockwise z until gear locked down (approximately five turns).

On completing the instructions, observe the corresponding green landing gear down and locked indicator light illuminated and red doors light illuminated.

The red landing gear disagreement lights will remain illuminated until gear handle is placed in the down position.

Remove crank and close access panel. Repeat as appropriate for all other landing gear to be extended manually. Replace hand crank in retainer.



DO NOT LEAVE THE CRANK IN THE SOCKET. SERIOUS PERSONAL INJURY COULD RESULT IF THE LANDING GEAR IS RETRACTED.

(Continued)



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MANUAL GEAR EXTENSION (CONTINUED)

Landing Gear Lever	PNF
If a green light fails to illuminate check secondary indicators or gear viewer port if possible (i.e., no cargo) for indication. Two red stripes will be aligned in the viewing port if the gear is down and locked. Nose gear viewer is in center aisle floor one foot aft of cockpit. Main gear viewers are opposite the fourth window aft of the aft overwing emergency escape hatch.	
Both Hydraulic System "A" PumpsON	FE
Position both System "A" pumps to ON.	
If System "A" pressure is available, the main gear doors will close and the tailskid will extend.	

Note:

If System "A" hydraulic pressure is available, the landing gear can be retracted normally, even though one or more gear have been extended manually.

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EMERGENCY/ABNORMAL PROCEDURES

PARTIAL OR GEAR UP LANDING

After attempting to extend the landing gear using normal and manual extension procedures and observing one or more red landing gear disagreement warning lights illuminated. A constant warning horn will sound when the flaps are selected to a landing position.

- Consider all relevant factors: Destination, facilities, time available, airplane configuration, landing C.G., runway foaming, etc.
- After every means has been used to extend the landing gear, dump fuel as required
- Brief crew and supernumeraries on landing and evacuation
- Plan flaps 40 landing, if possible

DESCENT

Approach Briefing	PF
Landing Data SET & X-CHKD The PF should verbally identify the V_{TH} and V_{APP} speeds and the Go-Around EPR setting.	ALL
Shoulder HarnessON	ALL
LightsON	С
Turn inboard landing lights ON. In high traffic areas, consider use of wing and logo lights (as installed) for increased recognition.	
Air Conditioning	FE
Check temperatures and cooling door positions. Pressurization	FE:
Set pressurization system to have cabin depressurized by 3,000 feet AGL. Electronic system – Set LAND ALT and CAB ALT selectors to field elevation plus 3,000 feet, and BARO selector to landing airport QNH.	
Pneumatic system - Set Cabin Altitude selector to field elevation plus 3,000 feet, and BARO selector to landing airport QNH. Adjust rate as desired.	
Supernumeraries BRIEF The Captain may designate the FO or FE to brief the supernumeraries.	С
TRANSITION LEVEL	
Altimeters	ALL FO:



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PARTIAL OR GEAR UP LANDING (CONTINUED)



If the GPWS c/b pulled, all GPWS, Windshear warnings, and automatic altitude callouts will be inoperative.

Landing Gear Warn Horn C/B (P6-1).....PULL Disable the warning horn to prevent continuous sounding when flaps are selected past 25 (15/20 for Raisbeck depending on available detents). Crew Oxygen Valve......CLOSE FE: Galley Power......OFF FE-FE: After Touchdown ProcedureREVIEW

- Extend speedbrakes manually to required position:
 - For both main gear down and nose gear up, raise speedbrakes normally
 - For nose gear down and both main gear up, or all gear up, raise speedbrakes normally. (No ground spoilers will be available)
 - For one main gear and nose gear down, and one main gear up, raise speed brakes to 20 degree position only for maximum lateral control. (No ground spoilers will be available if left main gear is retracted)
 - Fuel boost pumps all OFF
 - Reversing and brakes as necessary

----- AT 3,000 FEET AGL -----

.....REDUCE TO ZERO FE Cabin Differential Pressure.

If cabin has not fully depressurized:

Electronic – Select MAN DC and manually adjust the outflow valve to full OPEN.

Pneumatic – Adjust the manual pressurization controller to DECREASE

PRESSURE to depressurize the cabin.

WHEN DIFFERENTIAL PRESSURE ZERO:

Both Air Conditioning Packs OFF FE: All Engine Bleed Air ValvesCLOSE (Continued)

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EMERGENCY/ABNORMAL PROCEDURES

PARTIAL OR GEAR UP LANDING (CONTINUED)	
APPROACH	
HSI Source SelectorNAV (RADIO)	C,FO
Flight and NAV Instruments	C,FO
LANDING	
Landing Gear LeverGREEN	PNF
Anti-Skid	
IgnitionON Continuous Ignition switch ON. With no Continuous Ignition switch installed, place Start switches of operating engines to FLIGHT.	FE
Fuel Panel	FE
LANDING FLAPS SET	
Flaps, ,°,° GREEN Verify the inboard and outboard flaps are at the selected landing flap position, and the green LE FLAPS light is illuminated.	PNF
Hydraulics	FE
Emergency Exit LightsON	FÉ



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LANDING GEAR ABNORMAL PROCEDURES

LANDING GEAR DOOR WARNING LIGHT ILLUMINATED

This condition exists any time landing gear is retracted or extended and gear door warning light is illuminated. Observe landing gear operating speed limit.

IF AFTER TAKEOFF:

Landing Gear RECYCLE PNF

Extend and retract landing gear. Observe door warning light for indication that door has closed.

If gear door warning light does not extinguish:

Observe landing gear operating speed limit.

IF DURING CLIMB, CRUISE OR DESCENT:

Landing Gear Lever UP PNF

Position landing gear lever UP and observe gear door warning light extinguishes. Leave landing gear lever in UP position.

If gear door warning light does not extinguish:

Observe landing gear operating speed limit.

Expect performance penalties. See Gear Down Cruise (See Gear Down Cruise in Chapter 6D for -15 engines) or See Gear Down Cruise (See Gear Down Cruise in Chapter 6C for -9 engines) for gear down cruise altitude capability and fuel consumption.

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Particular Procedures

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EMERGENCY/ABNORMAL PROCEDURES

LANDING GEAR WARNING LIGHT ILLUMINATED

Manual Gear Extension Procedure

LANDING CLAN WARRING LIGHT ILLUMINATED	
This condition exists whenever red landing gear warning light is illuminated, unless caused retarding thrust lever(s) when flaps are 0 - 25. Landing gear warning horn may also sound	
Landing Gear	PNF
Gear Door Light	FE
FOLLOWING GEAR RETRACTION:	
If the green gear position lights indications abnormal:	
Landing Gear Extended Speeds OBSERVE	PF
FOLLOWING GEAR EXTENSION:	

(See Manual Gear Extension in Chapter 4ACCOMPLISH



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GEAR DOWN AND LOCKED LIGHTS EXTINGUISHED WITH GEAR LEVER DOWN

When hydraulic System "A" is normal and the landing gear lever is in the DN (Down) position, three green gear lights should illuminate, indicating that gear is "down and locked." If one or more green lights do not illuminate, or if one or more red lights do not extinguish, the following procedures, as appropriate, can be used to verify that the gear is "down and locked" or is in fact unsafe.

Gear Warning Lights TEST Verifies light bulb and circuit integrity.	PNF
Wheel Well LightsON Alternate Gear Down	FO
Lock Indicators	FE
IF ALTERNATE GEAR DOWN LOCK INDICATORS CONFIRM THE AFFECTED GEAR NOT DO AND LOCKED:	WN
Manual Gear Extension ProceduresACCOMPLISH	FE