SECTION IX - CONDITIONAL PROCEDURES

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PRESSURIZATION CONTROL MANUAL CONTROL OF PRESSURIZATION

CABIN PREPARATION

Use the following table and one of these procedures to find and record cabin altitude:

- Use red and blue lines to find out the cabin altitude that would correspond to the aircraft altitude if the automatic mode were used.
- Keep the cabin altitude in the allowed area.

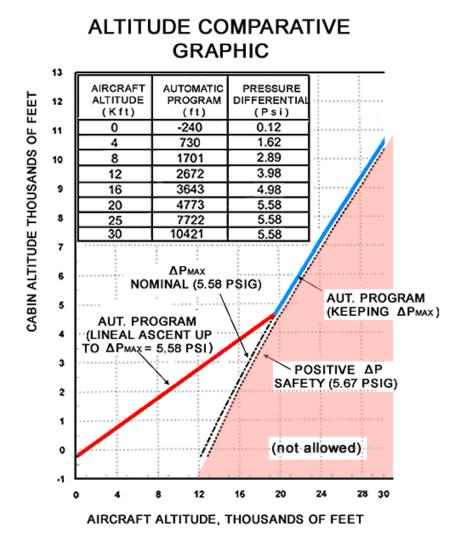


Figure 9-1 Altitude Comparative Graphic

1/2 On the bases of the time estimated for the aircraft climb, calculate the corresponding cabin rate of climb to reach the determined cabin altitude (from 1000 ft less than the take-off level) in the estimated time. Round this rate to the higher value register. **NOTE** If cabin climb rate were much higher than 600 fpm, it is recommended that the aircraft climb rate be restricted to allow cabin rate to be limited to this value. 2 4. Manual Cabin Rate of Change Knob......INCR 45° 2 Turn the knob fully to the left, then turn it 45° to the right (INCR). 5. PRESS DUMP Switch...... ON 2 Lift selector guard and set on the PRESS DUMP switch. AFTER START 1. Air Conditioning Packs......A.R. 2 To condition cockpit and cargo areas, if required, C/M-2 will set bleed switch one by one to ON, checking that the related magnetic indicator aligns. **BEFORE TAKE-OFF** 1. Air Conditioning Packs (if connected)......OFF 2 Set bleed switches one by one to OFF and check magnetic indicators crossed. PRESS DUMP Switch...... OFF / UNDER GUARD 2 Set off the PRESS DUMP switch and lower the guard. AFTER TAKE-OFF, AND CLIMB 1. Air Conditioning Packs......ON Once the hydraulic pump have been turned off, set bleed switches, one by one to ON and check magnetic indicators aligned. Manual Cabin Altitude SelectorHOLD UP Keep the selector in UP position during the climb. Check cabin rate of change and differential pressure indicators. 4. Manual Cabin Rate of Change Knob......A.R. Adjust the manual cabin rate of change knob as required for cabin rate of climb.

NOTE

If differential pressure reaches 5.58 PSI, and the cabin cannot be held at 600 fpm, decrease the aircraft ft rate of climb as suitable.

Take advantage of any possible intermediate altitude holding to reduce the cabin rate of climb.

CRUISE

Any significant change in cabin altitude may be corrected with the manual cabin altitude selector.

3. Pressurization Changes due to Level ChangesPERFORMED

Do all necessary adjustment with the manual cabin altitude selector, setting it as required and using the manual cabin rate of change knob as required as well.

PREPARATION FOR DESCENT

Calculate the Point of Descent considering a low rate of cabin pressure descent to allow corrections due to variations and inaccuracies of the cabin pressure manual control, therefore is recommended to consider 400 fpm cabin rate. With a conservative profile, it will be possible to prevent unnecessary altitude holding (because the aircraft has "caught up" the cabin) or forced and excessive rates of descent.

Turn the knob fully to the left, then turn it 45° to the right (INCR).

If differential pressure is noticeably lower than 5.58 PSI (below FL 170), start cabin descent 2 or more minutes before lowering nose, to have a greater margin of operation of the cabin, taking special care not to exceed the differential pressure of 5.58 PSI. Keep selector to DN.

CAUTION

During descent, make sure that the aircraft altitude does not reach the cabin altitude. If the differential pressure indicator comes near 0, reduce the aircraft rate of descent.

NOTE

Every prior minute of cabin descent at 400 fpm means an increase of about 0.2 PSI in differential pressure. At FL 140, the priority may go up to 5 minutes.

DESCENT AND APPROACH

1.	Manual Cabin Altitude Selector	
	Keep the selector in DN until cabin altitude is 1000 ft below field altitude.	
2.	Pressure Indicators	
	Check cabin rate of change and differential pressure indicators.	
3.	Manual Cabin Rate of Change KnobA.R.	
	Adjust the knob as required for cabin rate of descent.	
	Take advantage of any possible intermediate altitude holding to reduce cabin rate of descent.	
	At 500 ft AAL (Above Aerodrome Level):	
4.	Air Conditioning Packs (one side)OFF	
	Set one of the bleed switches to OFF.	
5.	PRESS DUMP SwitchON	
	Check differential pressure indicator at or below 0.7 PSI, and then set on the PRESS DUMP switch.	
	 At around 200 ft RA (Radio Altimeter): 	
6.	Air Conditioning Packs (other side)OFF	
ΑF	FTER LANDING	
	hen parking area is reached, open one of the cockpit windows to ensure the removal maining differential pressure.	of any
D	EPRESSURIZATION	
1.	Air Conditioning PacksA.R.	1/2
	The air conditioning packs can remain on, but they can also be disconnected to increase the depressurization rate.	
2.	Temperature Controls	2
	If the air conditioning packs are remained on, set the temperature as required.	
3.	Oxygen MasksA.R.	ALL
	If cabin altitude is expected above 10000 feet while aircraft is depressurized, masks must be fitted, adjusted and oxygen supply is set as required. Then, each C/M presses-in the MASK pushbutton on his communications panel and, if the breathing noise is disturbing, disables INPH HOT and uses the PTT with the headphones or with the cockpit speakers.	
A.	If manual procedure is going to be performed:	
4.	Pressurization Mode SelectorMANUAL	1/2
5.	Manual Cabin Rate of Change KnobA.R.	1/2

6.	Manual Cabin Altitude Selector	HOLD UP	2
7.	Continue with step 7, in part B.		
В.	If automatic procedure is going to be performed:		
	NOTE		
	At FL140 or below, automatic mode depressurize the cabin.	is available to fully	
	NOTE		
	Above FL140, the automatic mod increase cabin altitude only up to fully depressurize the cabin, the ma used.	14000 ft. Then, to	
4.	Pressurization Mode Selector	AUTO	1/2
5.	A Knob	ADJUST	1/2
	Set the landing airfield altitude to, at least, the same of	f the airplane.	
6.	B Knob	ADJUST	1/2
7.	R Knob	A.R.	1/2
8.	Differential Pressure	CHECK DECREASING	1/2
9.	Cabin Altitude	CHECK INCREASING	1/2
10.	Cabin Rate of Change Indicator	CHECK	1/2
	NOTE		
	It is recommended to limit cabin clim	b rate to 600 fpm.	
Wh	nen differential pressure is below 0.7 PSI		
	NOTE		
	In emergency cases, press dump ca PSI.	n be set on up to 1	
11.	PRESS DUMP Switch	ON	1/2
12.	Differential Pressure	CHECK 0 PSI	1/2
13.	Air Conditioning Packs	ON	1/2
	After doors/ramp are opened, if packs were off, switch temperature.	them on to alleviate ambient	
R	E-PRESSURIZATION		
1.	Doors	CHECK CLOSED	1/2
2.	Air Conditioning Packs	OFF	1/2
	Set bleed switches one by one to OFF, so that next of	peration is smooth.	
3.	PRESS DUMP Switch	OFF / GUARDED	1/2

4.	Air Conditioning PacksON	1/2
A.	If manual procedure is going to be performed:	
5.	Pressurization Mode SelectorMANUAL	1/2
6.	Manual Cabin Rate of Change KnobADJUST	2
	NOTE	
	It is recommended to limit cabin descent rate to 400 fpm.	
7.	Manual Cabin Altitude Selector	2
8.	Differential Pressure	1/2
9.	Cabin Altitude	1/2
10.	Oxygen Masks	ALL
	When cabin altitude is at or below 10000 feet, remove oxygen masks.	
11.	Continue flight in auto or manual mode, as required.	
(EN	ND)	
В.	If automatic procedure is going to be performed:	
	NOTE	
5.	NOTE When pressure dump switch is off, the cabin rapidly repressurizes, at an uncontrolled rate, until reaching 15650 feet. Then, the automatic pressure controller resumes control of the outflow valves and sets the rate	1/2
5. 6.	NOTE When pressure dump switch is off, the cabin rapidly repressurizes, at an uncontrolled rate, until reaching 15650 feet. Then, the automatic pressure controller resumes control of the outflow valves and sets the rate of pressurization to the selected value in R knob.	1/2 1/2
	NOTE When pressure dump switch is off, the cabin rapidly repressurizes, at an uncontrolled rate, until reaching 15650 feet. Then, the automatic pressure controller resumes control of the outflow valves and sets the rate of pressurization to the selected value in R knob. Pressurization Mode Selector	
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6. 7.	NOTE When pressure dump switch is off, the cabin rapidly repressurizes, at an uncontrolled rate, until reaching 15650 feet. Then, the automatic pressure controller resumes control of the outflow valves and sets the rate of pressurization to the selected value in R knob. Pressurization Mode Selector	1/2 1/2
6. 7.	NOTE When pressure dump switch is off, the cabin rapidly repressurizes, at an uncontrolled rate, until reaching 15650 feet. Then, the automatic pressure controller resumes control of the outflow valves and sets the rate of pressurization to the selected value in R knob. Pressurization Mode Selector	1/2 1/2
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6.7.8.	NOTE When pressure dump switch is off, the cabin rapidly repressurizes, at an uncontrolled rate, until reaching 15650 feet. Then, the automatic pressure controller resumes control of the outflow valves and sets the rate of pressurization to the selected value in R knob. Pressurization Mode Selector	1/2 1/2 1/2
6.7.8.9.10.	NOTE When pressure dump switch is off, the cabin rapidly repressurizes, at an uncontrolled rate, until reaching 15650 feet. Then, the automatic pressure controller resumes control of the outflow valves and sets the rate of pressurization to the selected value in R knob. Pressurization Mode Selector	1/2 1/2 1/2

FUEL

FUEL CROSSFEED

CAUTION

Before a fuel crossfeed is started, make sure that there are no fuel leaks.

NOTE

Occasionally the FUEL LOW caution may display when a cross feed is performed.

Avoid abrupt maneouvres, limit cross feed to the time necessary to correct any imbalance and if possible reduce power in one or both engines until the FUEL LOW caution goes off.

If displayed in the side with disconnected pump, additionally reconnect pump and never close XFEED valve until caution has gone off

A. If both engine are to be fed from one main tank:

NOTE

NH's in the engine being fed via crossfeed could reduce momentarily during the procedure.

1. XFEED Pushbutton......ON 2 Press and check that horizontal indicator and ON light come on. 10 seconds later: 2. PUMPS Pushbutton (tank to be disconnected)......OFF 2 Press and check that OFF amber light comes on. With fuel asymmetry corrected: 2 Press and check that OFF amber light goes off. 10 seconds later and only if "FUEL LOW" caution is off: 4. XFEED Pushbutton......OFF 2 Press and check that horizontal indicator and ON light go off. B. If the operative engine is to be fed from the opposite main tank

NOTE

This procedure can momentarily cause or reduce fuel feed or transfer.

1.	PUMPS Pushbutton (inoperative engine side)ON	2
	Check OFF amber light is off. If not, press PUMPS pushbutton and check RUN light comes on.	
10) seconds later:	
2.	XFEED PushbuttonON	2
	Press and check that horizontal indicator and ON light come on.	
10	seconds later:	
3.	PUMPS Pushbutton (operative engine side)OFF	2
	Press and check that OFF amber light comes on.	
Wi	ith fuel asymmetry corrected:	
4.	PUMPS Pushbutton (operative engine side)ON	2
	Press and check that OFF amber light goes off.	