Attachment 6

to Operational Factors / Human Performance Group Chairman's Factual Report

TAKEOFF AND LANDING OPERATIONAL LIMITS (CONT)

TIP TANK FUEL

Maximum tip tank fuel for landing is 925 pounds (420 kg) each tip tank.

MINIMUM FUEL

Fuel Load — Minimum 600 pounds (272 kg) in each wing required for takeoff and intentional go-around.

PRESSURIZATION

Do not takeoff or land with the cabin pressurized. Adhere to PRESSUR-IZATION SYSTEM OPERATION, Section II.

SEAT BELTS

Seat belts and shoulder hamesses must be worn during takeoff and landing.

ENROUTE OPERATIONAL LIMITS

TEMPERATURE LIMITS

Refer to AMBIENT TEMPERATURE LIMITS, Figure 1-6A

MAXIMUM OPERATING ALTITUDE

The maximum operating altitude is 45,000 feet. This is the highest altitude for which acceptable flight characteristics and systems operation have been demonstrated.

FLIGHT LOAD ACCELERATION LIMITS



These acceleration values limit the bank angle in a level coordinated turn to 70° (flaps up) and 60° (flaps down). In addition, pullups and pushovers must be limited to these values.

FM-019, Reissued FAA Approved 4-23-85. Change 3 Limita' s

SYSTEM LIMITS (CONT)

ENGINE SYNCHRONIZER (IF INSTALLED)

Engine sync must be OFF for takeoff, landing, and single-engine operation

EXTERNAL POWER

The maximum amperage from an external power source is limited to 1100 amps.

FREON COOLING SYSTEM

- Aircraft not incorporating FCN 89-1. The freen cooling system must be off above FL180.
- Aircraft incorporating FCN 89-1. The freen cooling system must be off above FL350.

OXYGEN SYSTEM

The following aircraft certification requirements are in addition to the requirements of applicable operating rules. The most restrictive requirement (certification or operating) must be observed.

On aircraft with Scott ATO crew masks, hats and "ear-mulf" type headsets must be removed prior to donning crew oxygen masks



Headsets, eyeglasses, or hats worn by crew members may interfere with quick-donning capabilities.

Crew and passenger oxygen masks are not approved for use above 40,000 feet **cabin** altitude

WARNING	
•	

 Passenger masks are intended for use during an emergency descent to an altitude not requiring supplemental oxygen.

 Passenger masks will not provide sufficient oxygen for prolonged operation above 34,000 feet cabin altitude. Prolonged operation above 25,000 feet cabin altitude with passengers on board is not recommended.

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1 mitations

SYSTEM LIMITS (CONT)

Above Flight Level 250 -

- Aircraft with ZMR 100 Series Crew Masks One crew member must wear oxygen mask around his neck
- Aircruft with 6600214 Series Crew Masks Crew masks must be in the quick-donning position which allows donning within 5 seconds

Above Flight Level 410 - Pilot, copilot and passengers must wear oxygen masks.

PRESSURIZATION LIMIT

Maximum Differential Pressure

10 0 PSI

WINDSHIELD AND RADOME ANTI-ICE FLUID

Methy' Alcohol (Methanol) per Federal Specification O-M-232, Grade A. is required

THRUST REVERSERS (IF INSTALLED)

When thrust receivers are installed, refer to the applicable Thrust Reverser Supplement for limitations normal procedures, emergency procedures, abnormal procedures, and performance data

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PITCH

TRIM

INSTRUMENT MARKINGS (CONT)

÷.,

TRIM

Aircraft with Standard wing and aircraft with Century III wing and FC-200 Autopilot not incorporating AAK 83-8:

Aircraft with Century III wing and FC-200 Autopilot incorporating AAK 83-8 and aircraft with Century III wing and FC-530 Autopilot:

CABIN ALTIMETER DIFFERENTIAL PRESSURE

Green Atc Yellow Atc Red Atc

1-32

0 8.9 PSI 8.9-9.2 PSI 9 2-10.0 PSI



FACTUAL REPORT





Gates Learjet 35/36 AFM

INSTRUMENT MARKINGS (CONT)

HYDRAULIC PRESSURE

Yellow Arc	0-500	PSI
Green Arc.	1250-1500	PSI
Red Line	1750	PSI



EMERGENCY AIR



If air bottle is serviced near low end of green arc, pressure may drop during flight if system cools; satisfactory gear extension and braking can still be expected.

OR

is ellow Arcissi Green Arcissis Rijd Line su 0-1800 PSI 1800-3000 PSI 3000 PSI

If air pottle is serviced near high end of yellow arc (slightly above 1800 psi), pressure may drop during flight if system cools; satisfactory gear extension and braking can still be expected.

OXYGEN PRESSURE

Green Arc	1550	-1850	PSI
Yellow Arc		0-300	PSI
Red Line		2000	PSI

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FACTUAL REPORT





INTRODUCTION TO NORMAL PROCEDURES

The procedures in this section of the manual have been developed by Learjet Inc. for certification of this aircraft. This section contains those procedures which may be considered routine in day-to-day operations. The presentation includes, but is not limited to, detailed checklist procedures by flight phase.

THROUGH-FLIGHT PROCEDURES (BOTH ENGINES SHUT DOWN)

Normal preflight procedures (all checklist line items) must be accomplished prior to takeoff at the original departure point of a flight. At each intermediate stop of flight where both engines are shutdown, the Through-Flight Checklist may be used for preflight provided certain criteria are met during a stop. In the following section, procedures marked with this symbol (\blacklozenge) denote Through-Flight Checklist items. When permitted, accomplishment of all Through-Flight Checklist items fulfills a minimum preflight requirement.

The Through-Flight Checklist may be used following an intermediate stop with both engines shutdown provided the following criteria have been satisfied during that stop:

- There has been no change in flight crew personnel.
- No maintenance has been performed on the aircraft. Routine line servicing is not considered maintenance.
- No more than three (3) hours have elapsed between engine shutdown and engine start.
- Extreme weather conditions (heavy precipitation, ice, snow, extreme cold, etc.) have not occurred which would change the pre-flight status of the aircraft.

For intermediate stops with one or no engine shut down, completion of the QUICK TURNAROUND procedure in this section provides the minimum preflight requirements.

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EXTERIOR PREFLIGHT



Walk-Around Inspection Figure 2-1

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EXTERIOR PREFLIGHT (CONT)

POWER OFF CHECKS

• During exterior inspection, check all vents clear, access doors for security, and all aircraft surfaces for condition.



- a. Pilot's Windshield Alcohol Discharge Outlets and Pilot's Defog Outlet — Clear of obstructions.
- ◆ a. Left Pitot Head or Pitot-Static Probe Cover removed, clear of obstructions.
 - b. Left Stall Warning Vane Freedom of movement, leave in down position.
 - c. Aircraft with FC-200 Autopilot, Left Static Ports (2) and Shoulder Static Port (1) Clear of obstructions.
 - d. Left Pitot-Static Drain Valves Drain. Required only if moisture in the pitot-static system is known or suspected.



NOTE

If pitot-static drain valves are opened, ensure that valve stem returns to the closed position.

- e. Nose Gear and Wheel Well Hydraulic leakage and condition.
- f. Nose Wheel and Tire Condition and nose gear uplock forward.

Chine on nose tire must be a minimum of 3/4 inch (19 mm) from ground to operate safely with an accumulation of 3/4 inch (19 mm) water on runway surface.

- a. Radome Alcoho! Discharge Port Clear of obstructions.
- b. Radome and Radome Erosion Shoe Condition.

a. Oxygen Bottle Supply Valve (if applicable) — Open (On).

- B. Right Pitot Head or Pitot-Static Probe Cover removed, clear of obstructions.
- c. Total Temperature Probe (if installed) Clear of obstructions.
- d. Right Stall Warning Vane Freedom of movement, leave in down position.
- e. Aircraft with FC-200 Autopilot, Right Static Ports (2) and Shoulder Static Port (1) Clear of obstructions.

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CABIN PREFLIGHT

- 1. Baggage Secure.
 - 2. Cabin Air Damper Control Knob or Cabin Blower Switch (on blower duct in aft cabin) As required.



- On aircraft with cabin air damper control knob, the auxiliary cabin heater will not operate unless damper control knob is in the closed position.
- On aircraft with cabin blower switch, when cabin blower switch (on blower duct in aft cabin) is in the OFF position, airflow is diverted above the headliner at all times except during auxiliary heater operation.
- 3. Emergency Exit Aisle clear and handle unobstructed.
- 4. Brief passengers. Briefing to include seat belt operation, oxygen system operation, life vest location and operation, emergency evacuation, and fire extinguisher location.



- Inform passengers that smoking in the lavatory area when the privacy curtains are closed is prohibited.
- Passengers should be advised not to use portable electronic equipment during takeoff, approach and landing.

BEFORE STARTING ENGINES

- 1. Controls Lock Stowed.
- 2. Safety Belts, Shoulder Harnesses, and Seats Secure and adjust.



Ensure that seat is adjusted so that full travel can be obtained on all controls.

◆ 3. Flight Controls — Check. Full travel on all controls.



Ensure that, during full rudder pedal movement, foot wear does not hinder movement of rudder pedals.

- 4. Oxygen System:
 - a. PASS MASK Valve AUTO.
 - b. PASS OXY Valve NORM.
- c. OXYGEN PRESSURE Gage Check.
 - d. Crew Masks:
 - (1) Check oxygen flow available. Select 100% oxygen.
 - (2) On Scott ATO masks, check harness inflation.
- 5. Circuit Breaker Panels Breakers depressed.
 - 6. LANDING GEAR Switch DN.
 - 7. Emergency Power System Check:
 - Aircraft with Single Emergency Battery System.
 - a. EMER BAT Switch STBY. Check attitude gyro for starting and erection, and amber EMER PWR light illuminated.
 - EMER BAT Switch On. Check attitude gyro operation and amber EMER PWR light illuminated and green gear LOCKED DN lights illuminated.
- For thru flight, EMER BAT Switch On. Check attitude gyro for starting and erection.
 - Aircraft with Dual Emergency Battery System.
 - a. EMER PWR BAT 1 Switch STBY. Check attitude gyro for starting and erection.
 - b. EMER PWR BAT 2 Switch On. Check both amber EMER PWR lights illuminated, and equipment powered by second emergency battery for operation.
 - c. EMER PWR BAT 1 Switch On. Check attitude gyro for operation, and both amber EMER PWR lights illuminated, and green gear LOCKED DN lights illuminated.
- For thru flight, both EMER PWR Switches On. Check attitude gyro for starting and erection.
- 8. Panel Switches and Avionics Off or set:
 - a. FUEL CMPTR Switches ON.
 - b. ANTI-SKID Switch ON.
 - c. Aircraft with FC-200 Autopilot, Pilot's Altimeter NORM.

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Normal F dures

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BEFORE STARTING ENGINES (CONT)

NOTE

It is recommended that one engine be started after. Stepic if external power is not being used. Refer to STARTING ENGINES this section.

- d. Cabin Altitude Warning Check.
 - (1) TEST Selector Switch Rotate to CABIN ALT, then depress and hold TEST button. Cabin altitude warning horn shall sound.
 - (2) HORN SILENCE Switch Momentarily engage Cabin altitude warning shall cease
 - (3) TEST Button Release
- e Stick Puller/Mach Warning Check
 - (1) PRI or SEC INVERTER Switch PRI or SEC
 - (2) Set Pitch Trim within T.O. segment on PITCH TRIM indicator
 - (3) LISTALL WARNING Switch On
 - (4) TEST Selector Switch Rotate to MACH.
 - (5) Depress and hold TEST button. Control Column shall move aft with approximately 18 ppunds force and the aural overspeed warning shall sound. Aircraft with FC-530. Autop lot: after approximately 1/2 second, the puller and overspeed warning shall cease. After approximately 1/2 additional second, the puller and overspeen warning shall activate again and then cease. After approximately 1/2 additional second, the overspeed warning shall sound again.
 - (6) TEST Button Release
- 4 Mach Trim Check
 - (1 TEST Selector Switch Rotate to MACH TRIM
 - (2) Depress and hold TEST Button. The stabilizer should trim slowly in the nose up direction for 1 to 3 seconds and then stop. Aircraft with FC-530 Autopilot, the trim-in-motion audio clicker may or may not sound. The MACH TRIM warning light shall illuminate and the overspeed warning horn shall sound.
 - . (3) TEST Button Release. MACH TRIM warning light shall go out and overspeed warning horn shall cease.
 - Stall Warning System Check:



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During heavy wind conditions, it may be necessary to head aircraft into the wind to prevent wind from blowing stall warning vanes up.

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BEFORE STARTING ENGINES (CONT)

- (b) As the needle advances to the red segment, the pusher will actuate briefly, then stop. L STALL warning light will illuminate steady just prior to or at pusher actuation. After pusher stops, the needle shall sweep back and remain in the yellow or green segment.
- (4) TEST Button Release.
- (5) Rotate TEST Selector Switch to R STALL. Depress and hold TEST button. The test operation will be identical to Step. (3) above except needle will sweep the copilot's angle-of-attack indicator and the red R STALL warning height will flesh.



HIST Buttern - Release

With STALL WARNING switches On, steady illumination of the Clor R STALL warning light indicates a maltunities - except during pusher actuation or system test

- 7 Repeat Step (5) and (6) with either control wheel master switch (MSW) depressed. Verify that, as the angle-of-attack indicator needle moves through the band, the nudger and pusher do not actuate. The nudger monitor hom will should fine needle stays in the yellow segment.
- Subscreen Oth Check that both angle-of-attack indicator roundes make at least one significant shift in position as the Pape are rewared.
- NTALL MARINING Switches OFF
- 18 Child Adut De Gyro -- Oncage
 - .9 Pressurvation and Temperature Controls Check and set as follows
 - E Pressurization Controls



For manual mode pressurization, refer to PRESSUR-IZATION SYSTEM OPERATION, this section

- . E. J. and R. BLEED AIR Switches Check, On
- COMPARES WITCH -- OFF
- (3) PRESSURIZATION AUTO-MAN Switch -- AUTO
- (4) AIRCRAFT ALT Selector Knob Rotate to cruise altitude
 - (b) Cubin RATE Selector Position as desired.
 - (6) IN NORMAL-OUT DEFOG Knob Push in.

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BEFORE TAXE



Attensitant, do not hare not a ricondituation of awabary beater until care of the collowing conditions are then

- Racinarium-restricted below 250 amps with both enquies approximate
- One anametric realts means 200 amps with one engine operating.
- T. Accoracis Set as desired.
- P. Radar Standby
- Circuit Breakers -- Check, in
- United Oven Switches (if installed) As required
 - Fill Eyel Control Governor Check

a - Lam Phrust Lever - IDLE



It the engine accelerates uncontrolled during the following step set FUEL CMPTR switch On until engine stabilizes at idle. Shut down engine and determine and correct cause prior to flight.

(c) E. F. UUL CMPTR, Switch — QFF, Note L FUEL CMPTR, light id - Finated lenging RPM ina?/increase or decrease slightly).



It turbing speed toes not respond during the following steps start to an angle and determine and correct and matching and the second second

 Letter the second adverses to second and second second to the second field of the second se

- the optimust light and note invertigase in Turbine Speed (No
- landed Speed lesp has to thrust lever changes. L FUEL
- CMETR switch On and more that LIFUEL CMPTR light is out-

 Depart steps all through using R FUEL CMPTR switch and right throast reveal

- at sign windshield Heat system of possible multisture accumulation is still out of day and if exposed to moisture?
 - IN NORMAL OUT DEFOG Knob --- Pull out
 - WSHLD HEAT-MAN-AUTO Switch AUTO until water has cleared
 - WSHLD OV HT Light Monitor
 - d WSI-ILD HEAT AUTO MAN Switch MAN.
 - e WSHLD HEAT ON-OFF Switch OFF until airflow stops
 - I IN NORMAL OUT DEFOG Knob Push in.

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ATTACHMENT 6-13

TAXI AND BEFORE TAKEOFF (CONT)

- One START GEN Switch OFF Check ammeter reading on opposite generator increases (androximately doubles), then switch back to GEN
- MAIN BUS TIE Circuit Breaker (concildis main bis) Reset + Viscour encorporating AMK 80-17 or AAK 81-1
 - E. C.GR LIMITER and R. CUR LIMITER Lights Check extin reshed
- (in Figure Control Governor Check (if second engine is started during taxet-the Perform Refer to BEFORE DOM: this section.
- ◆ 1[™] volumeters and Ammeters Check
- ◆ 12 Evaluation Equipment Set for takes¹⁶
- ... Transponder On
- ◆ 14 Rollar --- As required.
- 15 Spokers Retracted and SPOILER light out
- Data Flags -- Set 20° or 8°, check indicatient
- The Trum Set for takeoff. Check PITCH TRIM switch in PRF and TO TRIM light out.
- ↓ 5 Pressurization System Set.
- ◆ 19 CABIN AIR Switch NORM
- ◆ 20 CABIN CLIMATE CONTROL Switches Set
- Arrison Systems



The wongs, vertice on the transferrer singlet contransurfaces, and wright in which we transfer of frost status and see



- Anterce sestems store concerned on promotio flight into visible monstore and Outside Accilientperature of 40 Fig4 4*C) or balow.
- It antifice systems are required during takeoff, they should be turned On prior to setting takeoff power.



Windshield Heat — As required



Maintain minimum RPM required to keep windshield clear

- b NAC HEAT Switches ON one at a time. Check amber ENG ICE lights extinguish by 60% Fan Speed (N1)
- c NAC HEAT Switches As required
 - d STAB WING HEAT Switch On Check for slight up rate on Cabin Climb Indicator.

Norma cedures

AFTER TAKEOFF (CONT)

6 Pressurization System



For manual mode pressurization refer to PRESSUR-IZATION SYSTEM OPERATION, this section

- a Cabin Altitude and Cabin Climb Indicators --- Monitor
- 5 Cabin RATE Selector As desired
- LDG LT TAXI Switches OFF
- 5 HYDRAULIC PRESSURE Check, nom al.
- ANGLE-OF-ATTACK Indicators Crossicheck pliot s and copilot's instruments for relative agreement.

CLIMB

10,000 Ft Checks:

1. 140 SMOKING FASTEN SEAT BELT Switch - As required

18,000 Ft (or Transition Altitude) Checks:

- 1 Altimeter Set to 29.92" Hg (1013 mb) at transition altitude
- 2 RECOG LT Switch OFF
- 2 COOL FAN Switch FAN or OFF at or before FL 180 (if applicabie) Refer to FREON COOLING SYSTEM. Section 1
- 4 Crew Masks Positioned to quick domning position at or before PL 250 Refer to OXYGEN SYSTEM, Section 1: On aimitalt with ZMR, 100 series diluter-demand crew masks, theory 100% OXY selected.

FL 350 Checks:

 COOL-FAN Switch — FAN or OFF Refer to FREON COOLING SYSTEM Section I

FL 410 Checks:

 Crew and Passenger Oxygen Masks — Don above Flight Level 410 Ensure lanyards have been pulled.

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PRESSURIZATION SYSTEM OPERATION



For Automatic Mode operation, refer to BEFORE STARTING ENGINES, AFTER TAKEOFF and DE- J SCENT procedures in this section

MANUAL MODE OPERATION

- 1 AUTO-MAN Switch MAN.
- 2 UP-DN Manual Control (red) As required to maintain satisfactory pressurization
- 3. To return to automatic operation, proceed as follows



If cabin altitude should increase to $10,000 (\pm 500)$ feet or above, the automatic mode is deactivated until the cabin altitude is decreased to 7500 feet or below.

- a CABIN ALT Controller Set at or below 7500 feet
- 8 RATE Knob Turn to full INCR
- UP-DN Manual Control (red) Control to autitude selected on CABIN ALT Controller
- d CABIN CLIMB Speed Indicator Stabilize at zero
- e RATE Knob Reset to nominal position
- E AUTO-MAN Switch AUTO
- g CABIN ALT Controller Reset (if required to appropriate cabin altitude for flight altitude

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MATEN SYSTEM

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OXYGEN DURATION

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- Demand Crew Masks. · Figure 4-1 is provided for Aircraft with ZMR 100 Series Diluter
- silver 2 words . Equite 4-2 is provided for Arread with 6600214 Series Demand
- SASEM WATO OTA troop they theread not boburger to the second to the

. nobuxo ibinomo n

EVSSENCER OXYGEN



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recommended tion at bread no stagnassed it will build in -dep 1991 000 GS prode nontenanci pagnoloria - aberr He nideo tool 000,45 overla mentatodo bogradora not · Physicinger masks will got provide sufficient oxygen

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the parturb ask to behave the suspice appressed .

sysem buildop top stillidisiv mumixem abivory of atea Himulli Ilim stabit langa tagap tagap shi yogab shisem nagyka witi neurostructures of the cabin allutude reaches 14,000 feet. Whenever aperois hadt moth doth litwisksem nagyra tagnassed and littler in sviev XRAM REAS shit this methody MROM shit in sense 1770 -SZA9 adt dilW imateue incitualitate nagywo roginaezeg with thilm Heve is nobyzo inclusing MACM but in oweN YXO SEAH in the sec

в в сохудет из гединеа -nossed It sysem yolgob at NAM at ovleV XZAM SZA9 presentation of masks will not occur in this event, turn Ditemptor and Battery switches are Off, automatic

- 10,000 feet. 2 Use oxygen if pressurization irregularities are encountered above
- sbutitle nideo teel 000, PT woled beinger an ingexio II 8
- Ð MAON - WINV YOUR
- PASS MASK Valve MAN (masks will deploy)

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TTACHMENT 6-17

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Normal ^r edures

OXYGEN SYSTEM (CONT)

- 4 When masks fall from their storage compartments, passengers must
 - a Don mask.
 - b Pull lanyard (releases oxygen to the masks).



The rebreather bag will inflate at a seemingly slow rate, when oxygen is flowing. This is normal

CREW OXYGEN

- 1 If oxygen is required by the crew only. PASS OXY Valve OFF
- When oxygen masks are worn by the crew, OXY-MIC Switch(es) ON Communication between crew members can be accomplished by using the INPH function of the audio control panel and increasing the MASTER VOL level
- 3 Crew Oxygen Masks
- Operate ZMR 100 series diluter-demand crew masks as follows:
 - With 100% OXY position (control lever down) selected on the mask regulator, the mask will provide 100% oxygen at all cabin altitudes. Maintain the 100% OXY position on undonned masks to reduce crew member action in the event of pressurization system failure or smoke in the cabin. 100% OXY must be selected for cabin altitudes above 20,000 feet.
 - E With NORMAL position (control lever up' selected on the mask regulator, the mask will deliver diluted oxygen. When using oxygen at cabin altitudes below 20,000 feet the NORMAL position should be selected to conserve oxygen and provide greater oxygen duration times.
- Operate 6600214 series masks with Robertshaw regulators as follows:
 - a With NORMAL selected on the Pressure Regulator Control and "normal" (100% lever locked up) selected on the Diluter Control, the crew mask will deliver automatic oxygen dilution from S L. to 30,000 feet cabin altitude. Above 30,000 feet cabin altitude, the mask will provide 100% oxygen and maintain a slight positive pressure.
- b To obtain 100% oxygen at any time, depress 100% lever.
- For emergency operation, select EMERGENCY on the Pressure Regulator Control and depress 100% lever on the Diluter Control. With the regulator controls in this position, the crew mask will deliver 100% oxygen and maintain a slight positive pressure for respiratory protection from smoke and fumes.

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OXYGEN SYSTEM (CONT)

- Operate 6600214 series crew masks with Puritan-Bennett regulators as follows:
 - a With NORM selected on the Pressure Regulator Control, the crew mask will deliver automatic oxygen dilution from S.L. to 33,000 feet cabin altitude and 100% oxygen above 33,000 feet cabin altitude. Automatic positive pressure breathing is provided above 39,000 feet cabin altitude.
 - To obtain 100% oxygen at any time select 100% on the Pressam Regulator Control.
- C. For emergency operation, select EMER on the Pressure Regulator. Control: While the regulator control of this position, the recensisk will dealer 100% oxygen maintain a slight positive pressure in the mask cup at all times for respiratory protection there, strake on rankes and automatic positive pressure breathered at the dealer 200 here rank at tude.

· Operate Scott ATO masks as follows:

- To check for oxygen availability to the mask while stowed, depress the PRESS TO TEST button/knob on the bottom of mask pressure regulator — oxygen wull fow while button is held.
- t) To don crew oxygen masks
 - 1. Remove bats and lear mulfilitype headsets
 - Headsers and eyeglasses worn by crew members may interfere with quick-donning capabilities
 - 2 Square and no title red handles on the mask pressure regulator to other to ordate the preumatic harness for domining.
 - Position harriess over the head (position mask as desired, then release red handles)
 - Ensure that mask is properly sealed. Reposition mask if required.

Boards worn by crew membris may make proper seating of the mask more difficult.

tout the 100% lever extended and the PRESS TO TEST buttour/knob rotated to the \leftarrow position, the mask will deliver automatic oxygen dilution from S L to 30,000 feet cabin altitude, 100% oxygen above 30,000 feet cabin altitude, and automatic pressure breathing above approximately 37,000 feet cabin altitude.

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NOTE

Normal 🛀 cedures

OXYGEN SYSTEM (CONT)

- d. To obtain 100% oxyger, at any time, depress 100% lever on mask pressure regulator
- e. For emergency operation, select EMERGENCY (rotate PRESS TO TEST button/knob to ●). With the mask pressure regulator controls in this position the crew mask will deliver 100% oxygen at all cabin altitudes and maintain a positive pressure in the mask cup at all times for respiratory protection from smoke or fumes.

BRAKE SYSTEMS

The primary brake system utilizes hydraulic system pressure for power boost and incorporates an anti-skid system to prevent tire skid and/or tire blow-out during landing or aborted takeoff. The brakes are operated by depressing the upper portion of the rudder pedals.



Large temperature differences between wheels after landing may indicate improper brake operation

A parking brake is installed. The parking brake is operated by depressing and holding the toe brakes (hydraulic system pressurized) and then pulling the PARKING BRAKE handle to set the brakes. Some aircraft have a PARK BRAKE light installed on the instrument panel which illuminates whenever the PARKING BRAKE handle is not fully in

An emergency air braking system is installed to provide emergency braking in the event of a hydraulic system failure. Refer to EMERGENCY PROCE-DURES (Section III) for emergency braking procedures.

NORMAL BRAKING

Anti-skid On Operation:

- 1. ANTI-SKID Switch On Check ANTI-SKID GEN lights extinguished.
- 2. Apply brakes as required. Maximum braking pressures can be maintained when anti-skid is operative.



The takeoff and landing distances with anti-skid On, presented in Section V of this manual, are based on full anti-skid braking from first brake application to complete stop.

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ANNUNCIATOR PANEL

The annunciator panel lights may be tested by pressing the test switch under the glareshield which causes the lights to illuminate. Photoelectric cells, outboard of each FIRE PULL or ENG FIRE PULL T-Handle, automatically dim the lights to a level corresponding to existing light in the cockpit or to a minimum preset level for a totally dark cockpit. If an annunciator light illuminates and the condition is corrected, the light will extinguish. If the condition recurs, the light will again illuminate. Any time a red annunciator light illuminates, the MSTR WARN lights on the pilot's and copilot's instrument panel will also illuminate and flash. Depressing the MSTR WARN light will extinguish the MSTR WARN light, however, the annunciator light will remain on as long as the condition exists.



The MSTR WARN light may not be resettable if

- 1 SPOILER light is flashing
- 2 Either FIRE PULL or ENG FIRE PULL T-Handle
- E. L. or R. STALL light is flashing

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Emergency C cedures

EMERGENCY DESCENT

- 1. Oxygen Masks Don. Select 100% oxygen.
- 2. Thrust Levers IDLE.
- 3. Autopilot Disengage.
- 4. SPOILER Switch EXT.
- LANDING GEAR Switch DN below MMO or VLE as appropriate for altitude. Keep sideslip angles to a minimum (ball, centered) when extending gear.
- 6. Descend at MMO or VLE as appropriate for altitude. Descent from 45,000 feet to 15,000 feet requires approximately 2 minutes 45 seconds.



If pressurization loss is due to structural failure, limit speeds and maneuvering loads as much as possible in descent

If Time and Conditions Permit:

- 7 Transponder Emergency 7700.
- 8 Pilot and Coprist OXY-MIC Switches ON



Communication between crew members can be accomporced by using the INPH function of the AUDIO CON-TROL PANEL and increasing the MASTER VOL level

- 9. Nettu a nimiland agency
- 10 Check us at an of passengers and provide assistance if conditions permit



Communication with passengers can be accomplished by using PASS SPKR function of the AUDIO CON-TROL Panel and adjusting the PASS SPKR VOL level.

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FAILURE TO DEPRESSURIZE ON THE GROUND

- CABIN AIR Switch OFF
- Both BLEED AIR Switches OFF

OVERPRESSURIZATION (Differential pressure exceeds red arc)

- 1 AUTO MAN Switch MAN
- 2 UP DN Manual Control (red) UP as required to maintain satisfies tory pressurization.

If unable to regulate the overpressurization in manual mode:

- 3 One BLEED AIR Switch OFF
- 4 Adjust power on opposite engine to control cabin pressurization

PRESSURIZATION LOSS AT ALTITUDE

UP TO 10 000 ± 500 FEET CABIN ALTITUDE

- 1 Oxygen Masks Don Refer to Section II for oxygen system operation
- 2 Engine RPM Maintain
- 3 IN NORMAL OUT DEFOG Knob Push in
- 4 WSHED HEAT Switch AUTO
- 5 CABIN ALE Switch OFF
- 6 AUTO MAN Switch MAN
- T UP DN Manual Control (red) As required to maintain satisfactor corressurization.

AT 10,000 (±500) FEET CABIN ALTITUDE

1 Cabin altitude aural warning horn will sound



At 10,000 (\pm 500) feet cabin altitude, control pressure to the outflow valve is trapped. This deactivates the Automatic Mode and stops cabin altitude from rising higher if the failure is in the automatic control system.

2 If cabin pressurization cannot be maintained, execute EMER GENCY DESCENT as follows:

a.	Oxygen Masks — Don. Select 100% oxygen.
b.	Thrust Levers — IDLE.
c.	Autopilot — Disengage.
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Abnormal Procedures

and appendix of state MCNL

PRESSURIZATION LOSS AT ALTITUDE (CONT)

d	SPOILER Switch - EXT.
C	LANDING GEAR Switch - DN below MMO or VLE as
	appropriate for altitude. Keep sideslip angles to a min-
	amum (ball centered) when extending landing gear.
f	Descend at MMO or VLE as appropriate for altitude.
	Descent from 45,000 feet to 15,000 feet requires !
	approximately 2 minutes, 45 seconds.



If pressurization loss is due to structural failure, limit speeds and maneuvering loads as much as possible during descent.

The CONDITIONS PERMIT

- - 7700

Copilot OXY MIC Switches -- TON



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is the controlling agency

 Condition of passengers and provide assistance Placebal to concernate



Communication with passengers can be accommunication with passengers can be accommunication of the AUDIO CON-TROL panel and adjusting the PASS SPKR VOL lave

TELET TOOLFEET CABIN ALTITUDE

- The bassenger oxygen masks will automatically fall from their stor symptopinpartments if the PASS MASK Valve is in AUTO and the PASS OXY Valve is in NORM.
- 2 The upper center panel lights will illuminate to provide maximum usability for donning masks.
- 3 Passengers don oxygen masks
- 4. Easterizers pull attaching lanyards to release oxygen to the masks



The rebreather bag will inflate at a seemingly slow rate when oxygen is flowing. This is normal

FM-019, Reissued FAA Approved 4-23-85, Change 3 4-17

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Abnormal Drocedures

Learjet 35-36 AFM

OXYGEN DURATION — MINUTES Aircraft with ZMR 100 Series Crew Masks FULLY CHARGED SYSTEM

		2 Crew	2 Crew	2 Crew	2 Crew	2 Crew	2 Crew	2 Crew
		_	2 Pass	4 Pass	6 Pass	8 Pass	9 Pass	11 Pass
-	40	251	80	48	35	28	25	22
00 Fee	35	182	71	45	33	26	24	20
- 100	30	135	63	42	32	26	23	20
nde -	25	105	56	39	30	25	23	20
En l	20	175	73	47	35	29	25	23
5	20	84	51	37	29	25	23	20
de	15	124	63	44	34	28	25	23
D P	15	67	45	34	28	24	23	20
ize	10	91		<u>-</u> *				
ide	10	54						
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Bold tace numbers (xxx; indicate 100%) oxygen (100 - 1 mm regulator)

- Light face numbers (xxx) indicate Diluter Demand (NORMAL production) or regulator;
- Crew and passenger oxygen masks are not approved for use above 1000 feet cabin altitude. Passenger durations above 30,000 feet cabin altitude are provided for information only. Passenger masks will not provide sufficient oxygen for prolonged operation above 34,000 feet cabin altitude. Prolonged operation above 25,000 feet cabin altitude with passengers on board is not recommended.
- Prior to overwater flights, plan oxygen requirements to provide sufficient oxygen for all occupants in the event of a pressurization failure. Additional oxygen may be required to assure that both oxygen duration and range (luel) requirements are satisfied.
- For cabin altitudes of 10,000 feet and above, the oxygen duration times include cabin altitude ascent time from 8000 feet to final stabilized cabin altitude.
- To calculate oxygen duration for a less than fully charged system the following formula may be used:

Duration = Duration from chart x (system pressure - 1850)

Figure 4-1

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> FM-019, Reissued FAA Annroved 4-23-85, Change 3

Tearget 35, 36 AFM

Abnormal Prinedures

OXYGEN DURATION — MINUTES Aircraft with 6600214 Series Crew Masks FULLY CHARGED SYSTEM

		2 Crew	2 Crew	2 Crew	2 Crew	2 Crew	2 Crew	2 Crew	
			2 Pass	4 Pass	6 Pass	8 Pass	9 Pass	11 Pass	
		••	84	51	36	29	26	22	
	•	251	79	47	34	27	24	21	
Ē		* sas	76	48	35 -	28	26	22	
i S		162	71	45	33	26	24	21	
3	2.0	219	79	49	36	29	25	22	1
	30	135	64	42	32	26	23	20	
5	2-	252	83	50	37	29	23	22	
i fe	<i>(</i>)	105	56	39	30	25	23	20	i
Ĩ	2.5	228	81	51	37	30	27	24	•
uic.	20	84	50	37	29	25	23	20	
Ĵ	• =	192	77	50	37	31	28	24	
2	· _`	67	45	34	28	24-	23	20	
	• •	163							
te t	· •	54							
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đ	С	50	C .	ASSENC			neash	20	
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		48							

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 For cabin altitudes of 10,000 feet and above, the oxygen duration times include cabin altitude ascent time from 8000 feet to final stabilized cabin altitude.

To calculate oxygen duration for a less than fully charged system the following formula may be used:

Duration = Duration from chart x (system pressure - 1850)

Figure 4-2

FM-019, Reissued 154 American 4,23,85, Change 3 4-19

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Abnormal Procedures

OXYGEN DURATION — MINUTES Aircraft with Scott ATO Crew Masks FULLY CHARGED SYSTEM

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53	52	53	28	46	82	503		N N
50	54	52	30	68	99	SOL	c7	iitu
55	52	58	34	97	02	123	30	de
50	54	56	35	45	79	132	05	1
55	52	22	34	57	89	571		100
50	59	56	33	57	12	281	c٢	0 F
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51	52	22	SE	85	62	521	0.5	
55	56	82	36	09	85	561		
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(eet cabin altitude Passenger durations above 30,000 feet cabin
 ilti altitude are provided for information only. Passenger masks milli altitude are provide for information for provide and to above 34,000 feet cabin altitude. Prolonged operation above 25,000
 if an altitude with passengers on board is not recommended.
 if an of the operation of the operation of the operation of the operation above 25,000

Photo of all occupants in the event of a pressurvation failure. Additional oxygen for all occupants in the event of a pressurvation failure for angle oxygen may be required to assure that both oxygen duration and range (fuel) requirements are satisfied

For cabin altitudes of 10,000 feet and above, the oxygen duration times
 include cabin altitude ascent time from 8000 feet to final stabilised cabin

To calculate oxygen duration for a less than fully charged system the follow.
 To calculate oxygen duration for a less than fully charged system the follow.

Duration = Duration from chart x (system pressure - 1850)

Figure 4-3

FAA Approved 4.23-85, Change 3

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PRESSURIZATION SYSTEM FAILURE

BLEED AIR WARNING LIGHTS - Aircraft incorporating AMK 76-7

If both the BLEED AIR L and BLEED AIR R warning lights illuminate, the secondary pressure regulator of one of the air modulating valves has failed.

- 1. R BLEED AIR Switch OFF.
- If both lights go out, continue flight in this configuration.
- If both lights do not go out, proceed to step 2.
- 2. R BLEED AIR Switch On, and L BLEED AIR Switch OFF.
- If both lights go out, continue flight in this configuration.
- If both lights do not go out, proceed to step 3.
- 3. Reduce power alternately on each engine until both lights go out. Continue flight with the appropriate engine at reduced power.

If either the BLEED AIR L or BLEED AIR R warning light illuminates, an overheat sensor has tripped the light.

1. Corresponding BLEED AIR Switch - OFF.

FAILURE TO DEPRESSURIZE ON THE GROUND

1. CABIN AIR Switch - OFF

OVERPRESSURIZATION (Differential pressure exceeds red arc)

- 1. AUTO MAN Switch MAN.
- 2. UP DN Manual Control (red) UP as required to maintain satisfactory pressurization.

If unable to regulate the overpressurization in manual mode:

- 3. One BLEED AIR Switch OFF.
- 4. Adjust power on opposite engine to control cabin pressurization.

FM-019, Reissued FAA Approved 4-23-85

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PRESSURIZATION SYSTEM FAILURE (CONT)

PRESSURIZATION LOSS AT ALTITUDE

UP TO 10,000 (± 500) FEET CABIN ALTITUDE

- Oxygen Masks Don Refer to Section II for oxygen system operation
- 2. Engine RPM Maintain
- 3. IN NORMAL OUT DEFOG Knob Push in
- 4. WSHLD HEAT Switch AUTO
- 5. CABIN AIR Switch OFF.
- 6. AUTO MAN Switch MAN.
- 7. UP DN Manual Control (red) As required to maintain satisfactory pressurization.

AT 10,000 (± 500) FEET CABIN ALTITUDE

1 Cabin altitude aural warning horn will sound



At 10,000 (\pm 500) feet cabin altitude, control pressure to the outflow valve is trapped. This deactivates the Automatic Mode and stops cabin altitude from rising higher if the failure is in the automatic control system

- 2 If cabin pressurization cannot be maintained, execute EMERGENCY DESCENT as follows
 - a Oxygen Masks Don Select 100% oxygen
 - b Thrust Levers IDLE
 - c Autopilot Disengage
 - a SPOILER Switch EXT
 - e LANDING GEAR Switch DN below MMO or VLE as appropriate for altitude. Keep sideslip angles to a minimum (ball centered) when extending landing gear.
 - f. Descend at MMO or VLE as appropriate for altitude. Descent from 45,000 feet to 15,000 feet requires approximately 2 minutes, 45 seconds.



If pressurization loss is due to structural failure, limit speeds and maneuvering loads as much as possible during descent.

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FM-019, Reissued FAA Approved 4-23-85

PRESSURIZATION SYSTEM FAILURE (CONT)

PRESSURIZATION LOSS AT ALTITUDE (CONT)

IF TIME AND CONDITIONS PERMIT:

g. Transponder - 7700.

Gates Learjet 35/36 AFM

h. Pilot and Copilot OXY MIC Switches - ON.



Communications between crew members can be accomplished by using the INPH function of the Audio Control System Panel and increasing the MASTER VOL level.

- Notify controlling agency.
-) Check condition of passengers and provide assistance if conditions permit.



Communication with passengers can be accomplished by using PASS SPKR function of the AUDIO CON-TROL panel and adjusting the PASS SPKR VOL level.

AT 14,000 (±750) FEET CABIN ALTITUDE:

- 1 The passenger oxygen masks will automatically fall from their storage compartments if the PASS MASK Valve is in AUTO and the PASS OXY Valve is in NORM.
- 2. The upper center panel lights will illuminate to provide maximum visibility for donning masks.
- 3. Passengers don oxygen masks.
- 4. Passengers pull attaching lanyards to release oxygen to the masks.



The rebreather bag will inflate at a seemingly slow rate when oxygen is flowing. This is normal.

FM-019, Reissued FAA Approved 4-23-85

Abnor ' Procedures

PRESSURIZATION SYSTEM FAILURE (CONT)

PRESSURIZATION LOSS AT ALTITUDE (CONT)

TO RETURN TO AUTOMATIC PRESSURIZATION MODE:

If cabin pressurization control is regained in the manual mode, and it is desired to return to automatic mode of operation, proceed as follows:

NOTE

Whenever cabin altitude increases to 10,000 (±500) feet or above, the automatic mode is deactivated until the cabin altitude is decreased to 7500 feet or below

- 1. CABIN ALT Controller Set at or below 7500 feet.
- 2. RATE Knob Turn to full INCR.
- 3. UP DN Manual Control (red) Control to altitude selected on CABIN ALT Controller.
- 4. CABIN CLIMB Indicator Stabilize at Zero.
- 5. RATE Knob Reset to nominal position.
- 6. AUTO MAN Switch AUTO.
- 7. CABIN ALT Controller Reset (if required) to appropriate cabin altitude for flight altitude.

4-28

FM-019, Reissued

ATTACHMENT 6-31

OXYGEN DURATION — MINUTES Aircraft with ZMR 100 Series Crew Masks FULLY CHARGED SYSTEM

		2 Crew	2 Crew 2 Pass	2 Crew 4 Pass	2 Crew 6 Pass	2 Crew 8 Pass	2 Crew 9 Pass	2 Crew 11 Pass
-	40	251	80	48				
00 Fee	35	182		- A3 				
1	30	135	* 63 ¢×	242.23				
Ittude	25	105	56	39	30	25	23	20
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		48	1.1.2.4					

• Bold face numbers (xxx) indicate 100% oxygen (100% OXY position on regulator).

- Light face numbers (xxx) indicate Diluter Demand (NORMAL position on regulator).
- Crew and passenger oxygen masks are not approved for use above 40,000 feet cabin altitude. Passenger durations above 30,000 feet cabin altitude are provided for information only. Passenger masks will not provide sufficient oxygen for prolonged use above 34,000 feet cabin altitude. Prolonged operation above 25,000 feet cabin altitude with passengers on board is not recommended.
- Prior to overwater flights, plan oxygen requirements to provide sufficient oxygen for all occupants in the event of a pressurization failure. Additional oxygen may be required to assure that both oxygen duration and range (fuel) requirements are satisfied.
- For cabin altitudes of 10,000 feet and above, the oxygen duration times include cabin altitude ascent time from 8000 feet to final stabilized cabin altitude.
- To calculate oxygen duration for a less than fully charged system the following formula may be used:

Duration - Duration from chart x (system pressure + 1850)

Figure 4-1

FM-019, Reissued FAA Approved 4-23-85, Change 2 4-28A

FACTUAL REPORT

ATTACHMENT 6-32

OXYGEN DURATION — MINUTES Aircraft with 6600214 Series Crew Masks FULLY CHARGED SYSTEM

		2 Crew	2 Crew 2 Pass	2 Crew 4 Pass	2 Crew 6 Pass	2 Crew 8 Pass	2 Crew 9 Pass	2 Crew 11 Pass
	40	267	84 .	513.2	436	29.4	1 26,	22
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		135	64	42	32	25	23	• 20
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- Bold face numbers (xxx) indicate 100% oxygen.
- Light face numbers (xxx) indicate Diluter Demand.
- Crew and passenger oxygen masks are not approved for use above 40,000 feet cabin altitude. Passenger durations above 30,000 feet cabin altitude are provided for information only. Passenger masks will not provide sufficient oxygen for prolonged use above 34,000 feet cabin altitude. Prolonged operation above 25,000 feet cabin altitude with passengers on board is not recommended.
- Prior to overwater flights, plan oxygen requirements to provide sufficient oxygen for all occupants in the event of a pressurization failure. Additional oxygen may be required to assure that both oxygen duration and range (fuel) requirements are satisfied.
 For cabin altitudes of 10,000 feet and above, the oxygen duration times include cab-
- For cabin altitudes of 10,000 feet and above, the oxygen duration times include cabin altitude ascent time from 8000 feet to final stabilized cabin altitude.
- To calculate oxygen duration for a less than fully charged system the following formula may be used:

Duration = Duration from chart x (system pressure + 1850)

4-28B

Figure 4-2

FM-019, Reissued FAA Approved 4-23-85, Change 2

OXYGEN DURATION — MINUTES Aircraft with Scott ATO Crew Masks FULLY CHARGED SYSTEM

	1	2 Crew	2 Crew 2 Pass	2 Crew 4 Pass	2 Crew 6 Pass	2 Crew 8 Pass	2 Crew 9 Pass	2 Crew 11 Pass
	40	261	82	50 -	36 .	28	- 26	22
-		251	79	- 48	35	27 .	. 25	21
l e	35	192	75	. 47 .	35	23,51	o (25).	22
8		182	71	45	- 33	26 26 se	24	• • •20
2	30	145	68	45	34		- 25	22
		135	64	42	32	26	24	20
e B	25	153	70	46	34	28	25	22
E	1	105	56	39	30	25	24	20
N N	20	203	78	49	37	29	27	23
<u>i</u>		84	50	36	29	24	23	20
U S	15	261	86	53	39	32	29	25
pe		67	45	34	28	24	23	20
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- Bold face numbers (xxx) indicate 100% oxygen.
- Light face numbers (xxx) indicate Diluter Demand.
- Crew and passenger oxygen masks are not approved for use above 40,000 feet cabin altitude. Passenger durations above 30,000 feet cabin altitude are provided for information only. Passenger masks will not provide sufficient oxygen for prolonged use above 34,000 feet cabin altitude. Prolonged operation above 25,000 feet cabin altitude with passengers on board is not recommended.
- Prior to overwater flights, plan oxygen requirements to provide sufficient oxygen for all occupants in the event of a pressunzation failure. Additional oxygen may be required to assure that both oxygen duration and range (fuel) requirements are satisfied.
- For cabin altitudes of 10,000 feet and above, the oxygen duration times include cabin altitude ascent time from 8000 feet to final stabilized cabin altitude.
- To calculate oxygen duration for a less than fully charged system the following formula may be used:

Duration = Duration from chart x (system pressure ÷ 1850)

Figure 4-3

FM-019, Reissued FAA Amaround A.23.85 Change 2 4-28C