

TECHNICAL ORDER 00-105E-9 TECHNICAL CONTENT MANAGER

WRITTEN CORRESPONDENCE:

HQ AFCESA/CEXF ATTN: Fire and Emergency Services Egress Manager 139 Barnes Drive Suite 1 Tyndall AFB, Florida 32403-5319

E-MAIL: HQAFCESA.CEXF@tyndall.af.mil

INTERNET: HQ AFCESA Fire and Emergency Services PUBLIC WEB PAGE: http://www.afcesa.af.mil/CEX/cexf/index.asp Safety Supplements: http://www.afcesa.af.mil/CEX/cexf/_firemg

PHONE:

AX

(850) 283-6150 DSN 523-6150

(850) 283-6383 DSN 523-6383

For technical order improvements, correcting procedures, and other inquiries, please use the above media most convenient.

SEGMENT 5 INFORMATION CHANGE NOTICE

This page is provided to notify the user of any informational changes made to Technical Order 00-105E-9 in this Segment and the current Revision. Informational changes will be referenced in the Adobe Reader's Bookmark tool as a designator symbol illustrated as a <[C]> for quick reference to the right of the affected aircraft. The user shall insure the most current information contained in this TO is used for his operation. Retaining out of date rescue information can negatively affect the user's operability and outcome of emergencies. If the user prints out pages his unit requires, the user shall print the affected page(s), remove and destroy the existing page(s), and insert the newly printed page(s) in the binder provided for that purpose. A Master of this TO shall be retained in the unit's library for reference, future printing requirements and inspections.

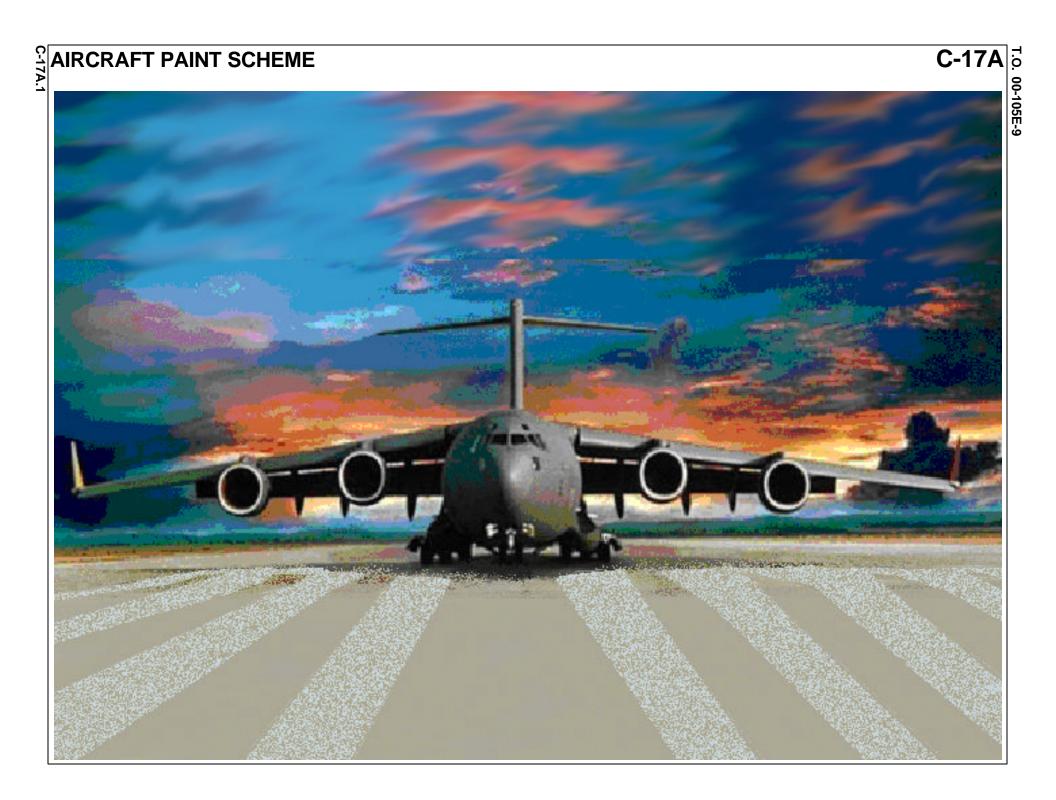
<u>CHAPTER</u>	AIRCRAFT	PAGE	EXPLANATION OF CHANGE		
6	C-17A	ALL	File updated to this segment an		

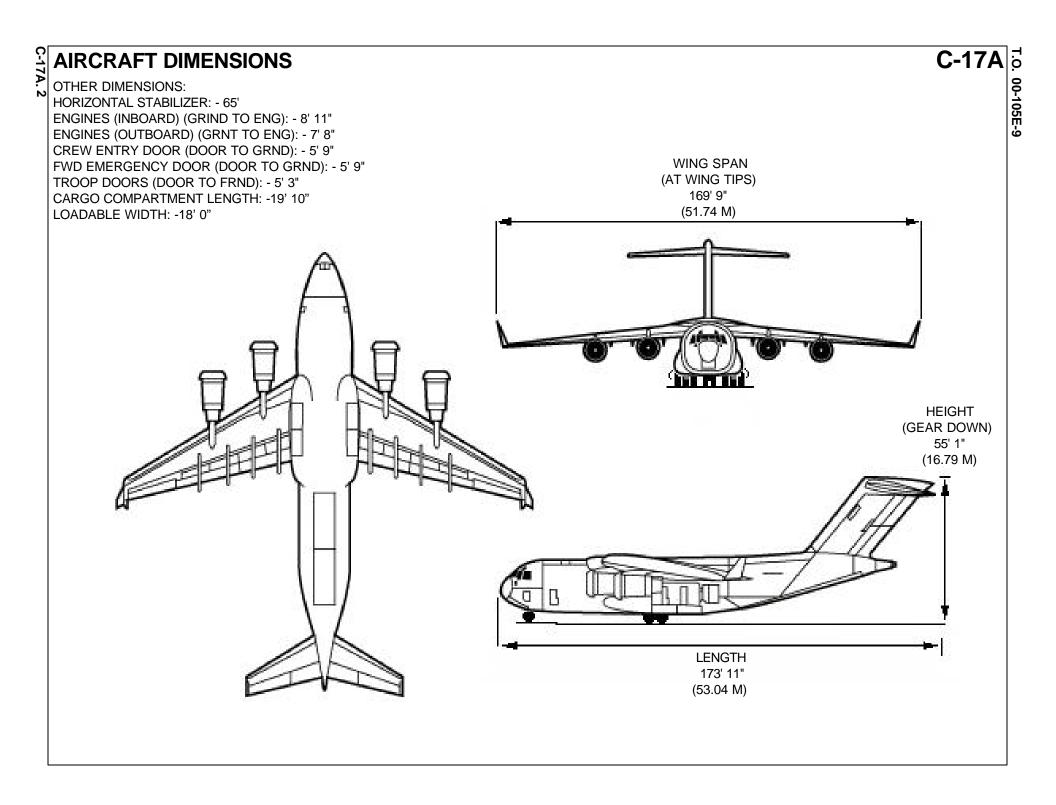
File updated to this segment and incorporates Safety Supplement -5, dated 2 September 2005.

NOTE

Chapter 6 contains emergency rescue and mishap response information for the following aircraft:

USAF	C-5
USAF	C-7
USAF	(V)C-9A/C
USAF	C-12C/D/F
USAF	C-12J
USAF	C-17A
USAF	C-18
USAF	C-18D
USAF	C-20
USAF	C-20H
USAF	C-21
USAF	C-22B
USAF	C-23A
USAF	C-26
USAF	C-27A
USAF	C-32A
USAF	C-37A
USAF	C-38A
USAF	C-40
USAF	C-130
USAF	C-130J
USAF	C-135
USAF	NC-135W
USAF	RC-135S
USAF	RC-135U
USAF	RC-135V/W
USAF	TC-135S
USAF	TC-135W
USAF	WC-135C
USAF	WC-135W
USAF	(V)C-137
USAF	C-141
USAF	NC-141A
USAF	C-212
USAF	KC-10A





DANGER AREAS

C-17A.3

WARNING

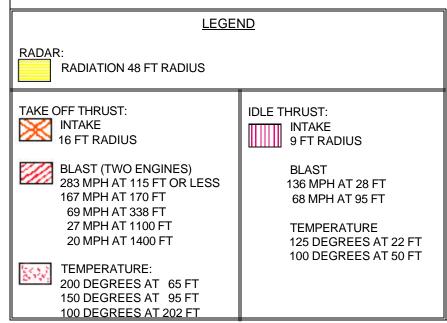
Engines, at any power setting are capable of developing enough inlet duct suction to cause fatal injuries to a person too close to the inlet.

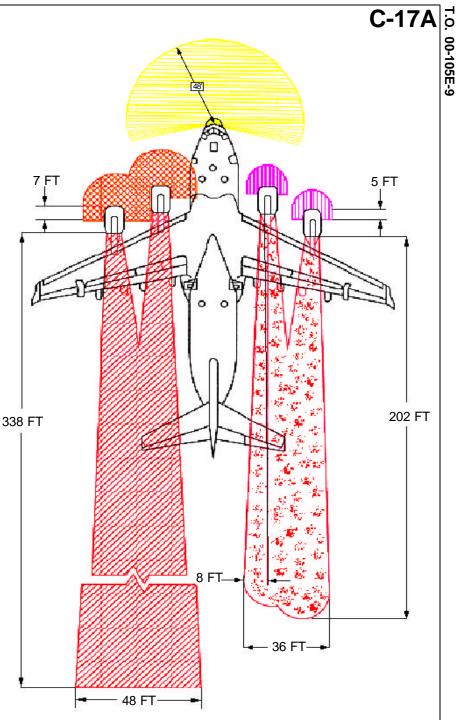
CAUTION

When loading or unloading personnel, baggage, or equipment through the crew entry door, with engines operating, stay clear of engine inlets. Secure all loose personal items before passing in front of operating engines. Application of high power settings with jet blast directed toward the path of other aircraft is not recommended. Jet blast is cumulative with surface winds and may exceed the operating limits of other aircraft.

NOTE:

If winds exceed 25 knots or ramp surfaces are slippery, add 50% to distance at intake.





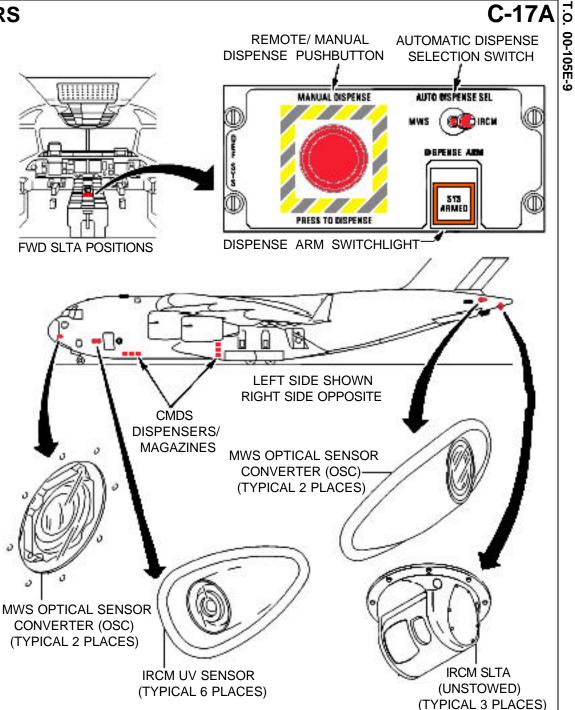
COUNTERMEASURES SYSTEM DANGERS

2 The Countermeasures Dispensing System (CMDS) provides an integrated, reprogrammable, computer controlled capability for dispensing expendables. The system is capable of programmed automatic response to incoming threats in conjunction with the Missile Warning System (MWS) and Infrared Countermeasures (IRCM), or of manual dispensing. The CMDS consists of 12 dispensers for flares, 3 safety switches, 6 sequencers (one for every two dispensers), a remote dispense switch, a DISPENSE ARM switch, 1 Control Display Unit (CDU), 1 programmer, and a preprogrammed Mission Data File (MDF).

The AN/AAQ-24(V)12 IRCM System is a high power directional Infrared (IR) jammer. The system provides threat acquisition, tracking, and jamming of missiles from ejection through postburnout or until threats can no longer be detected. The system can also interface with the CMDS to dispense flares. The system consists of a Control Indicator Unit, annunciators for missile threats and system faults, a Signal Processor, six sensors, one (or three) Small Laser Transmitter Assembly(ies), (SLTA) a Transformer Rectifier, and a maintenance override switch.

WARNING

- The laser is invisible. It can injure eyes or skin within 187 feet (Laser Hazard Zone, pg C-17A.7). The eye hazard distance is significantly increased through binoculars, telescopes, telephoto lenses, etc. The laser can ignite paper, plastics, and dried foliage within 20 feet. Although the laser does not ignite fuel or hydraulic fluid within 20 feet, these liquids may ignite from burning paper, etc. within this zone.
- Do not touch the IRCM UV sensor windows. The sensors can be very hot during system activation and for an extended period thereafter. The sensors have an anti-icing capability that is active when the CIU mode control knob is in any position other than OFF. There is also a IRCM sensor located near the maintenance ditching hatch.
- The Optical Sensor Converter (OSC) and SLTA contains hazardous materials. Stay clear of SLTA as they may start rotating. Do not touch dust particles or residue from a damaged OSC and SLTA.



00-105E-9

COUNTERMEASURE DISPENSING SYSTEM

NOTE:

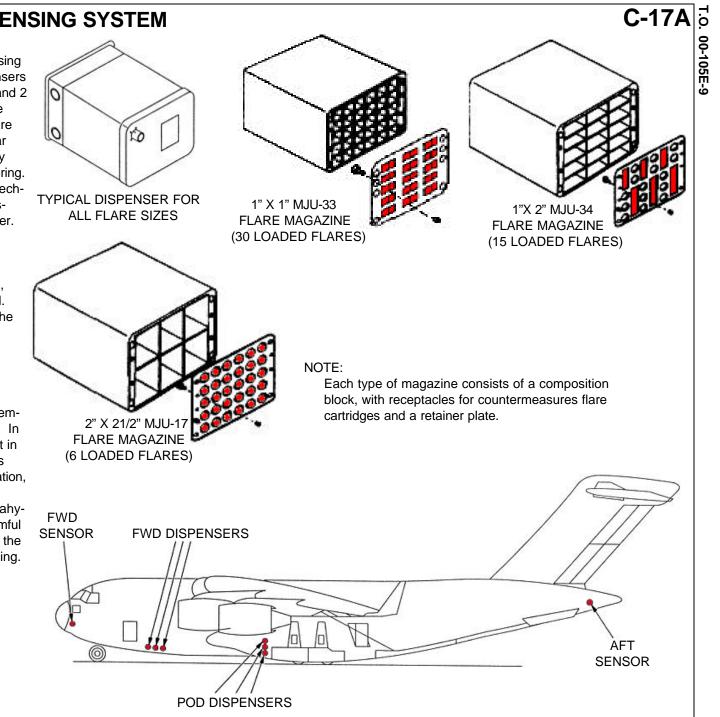
The C-17A aircraft Countermeasure Dispensing System is comprised of 12 separate dispensers (6 on each side) and 4 sensors (2 forward and 2 aft). Flares can be launched from either the auto or manual mode. When dispensers are loaded, they present a square or rectangular view. When dispensers are not loaded, they are covered with a 1.25" carbon epoxy covering. Dispensers have electrically actuated pyrotechnic squibs. The flares are mechanically dispensed from a magazine inside the dispenser.

WARNING

Dispensers, when actuated at close range, can present a serious danger to personnel. Best approach should be from the side if the integrity of the dispensers, magazines, or flares is compromised.



Do not disassemble the spectral filter assembly in the Optical Sensor converter (OSC). In the event of damage to the optical element in an OSC - producing dust, take precautions (respirator, goggles, gloves) to avoid inhalation, ingestion, or contact with skin and eyes. Each OSC contains nickelous sulfate hexahydrate, a probable human carcinogen. Harmful if swallowed, inhaled, or absorbed through the skin. Causes irritation, nausea, and vomiting.



COUNTERMEASURES SYSTEM

1. SAFETY SWITCHES LOCATIONS NOTE:

Observe the general condition of the aircraft as you approach it. If maintenance or other support activity is in progress, coordinate with ground support personnel, if available, to determine aircraft status besides the obvious.

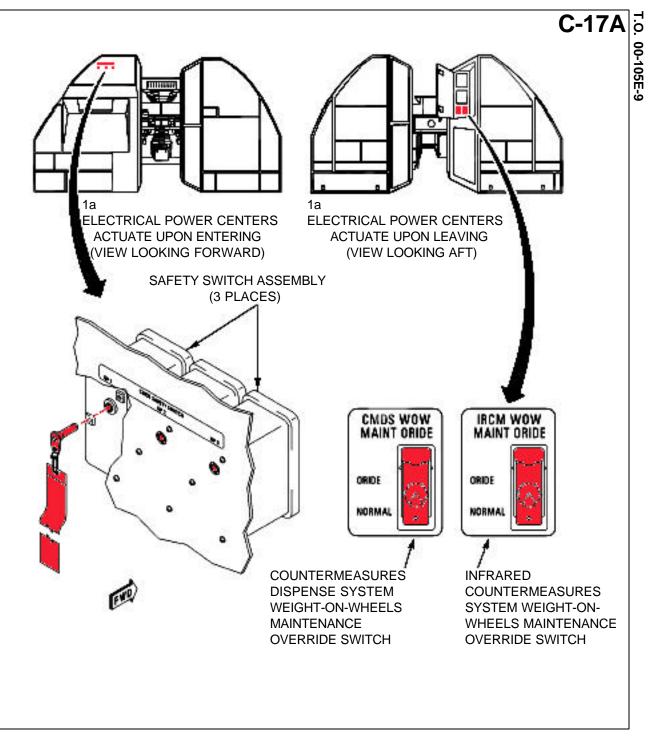
WARNING

- Beware of dangers prior to approaching within the laser unprotected eye/skin hazard area. See pages C-17A.7 and 8. Failure to fully install safety switch pins or place CMDS WOW MAINT ORIDE switch, which controls only flare launches, to the NORMAL position and could result in unintended jettison of payloads.
- Stay clear of the SLTA(s) as they will rotate periodically when the IRCM system is powered and performs autoboresight test to insure pointing accuracy of the turrets. The IRCM WOW MAINT ORIDE switch in the NORMAL position will keep the turret head in a stowed position during this procedure, the turret will still rotate (and laser will fire inwardly) whenever the system is ON (i.e. whenever a UDM/MUDM is installed in the CIU and the CIU MODE switch is in any position other than OFF). This occurs about every 15 minutes.

NOTE:

Complete "safing" of the system would include ensuring the CIU's MODE switch is OFF, no smartcard installed, and circuit breakers pulled.

a. Safety the countermeasure systems, if required, by inserting 3 safety pins in the forward electrical power centers upper left side upon entering and placing the two system switches in the NORMAL position upper right side, located on the flightdeck bulkhead before leaving the flightdeck.



C-17A. 7 LASER ZONES

1. LASER SAFETY ZONE

a. The IRCM System uses a Class IV Laser which can cause injuries to eyes and skin. The eyesafe and skin-safe distances are shown in the Table (Hazard Distance Summary for the IRCM Laser). Refer to the appropriate standards for necessary precautions when activating the IRCM Class IV Laser.

NOTE:

The eye-safe distances increase when viewing the laser through binoculars or telescopes.

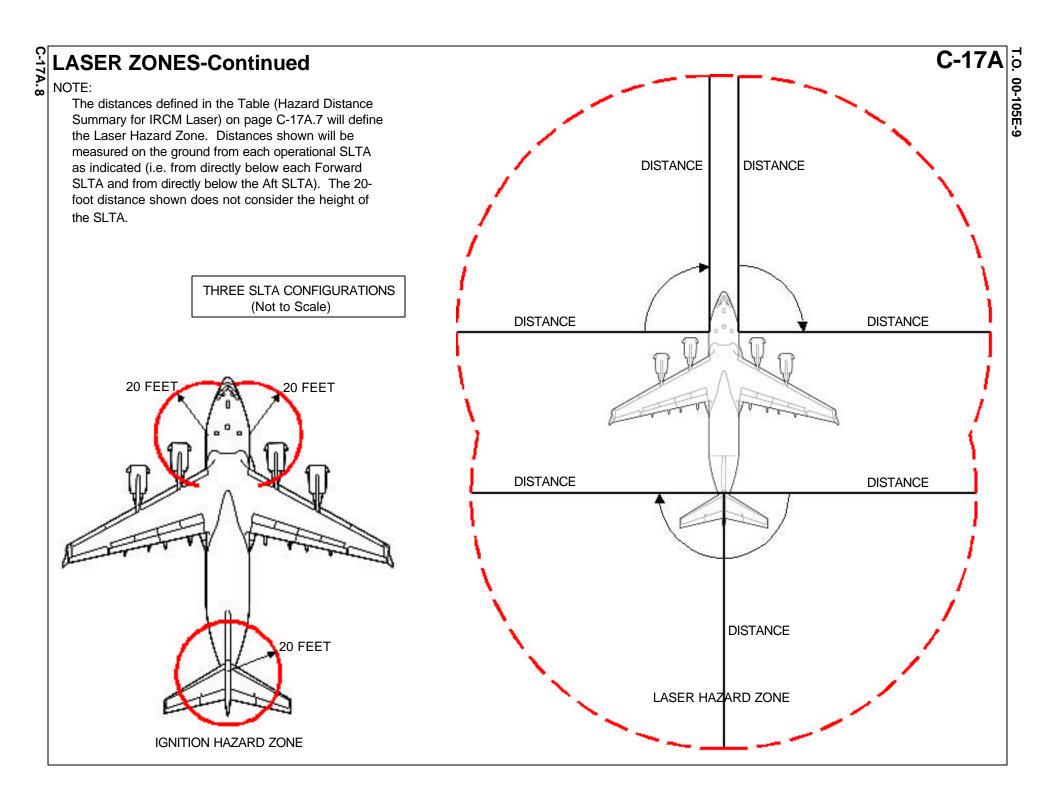
2. IGNITION HAZARD ZONE

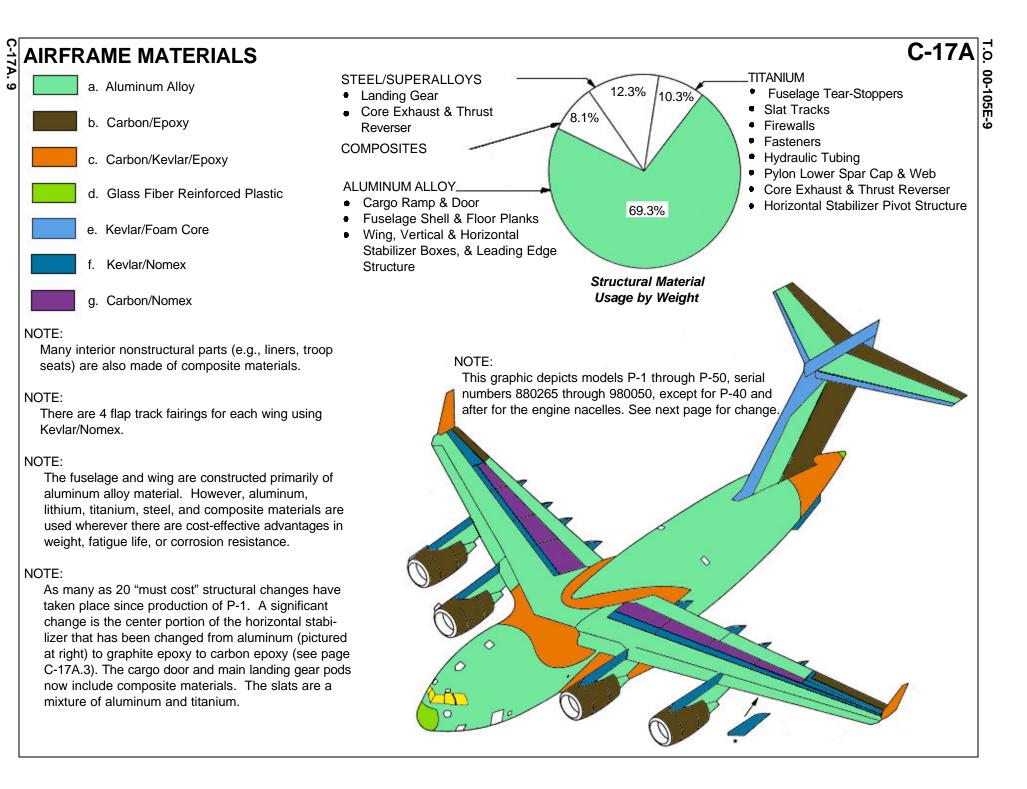
a. The IRCM System uses a Class IV Laser. Flammable materials with auto-ignition temperatures lower than JP-8 (i.e. 210°C, 410°F) such as paper, fabric, plastics and dried foliage may present a hazard within these zones. Although it has been shown that the laser alone should not ignite flammable liquids (i.e. hydraulic fluids, JP-4, JP-5, JP-8 and n-Hexane) these liquids could still be ignited by other combustible materials in the area should they be ignited by the laser. The severity of injuries to personnel may also be higher than those within the Laser Safety Zone. Refer to the appropriate standards for necessary precautions when activating the IRCM Class IV Laser.

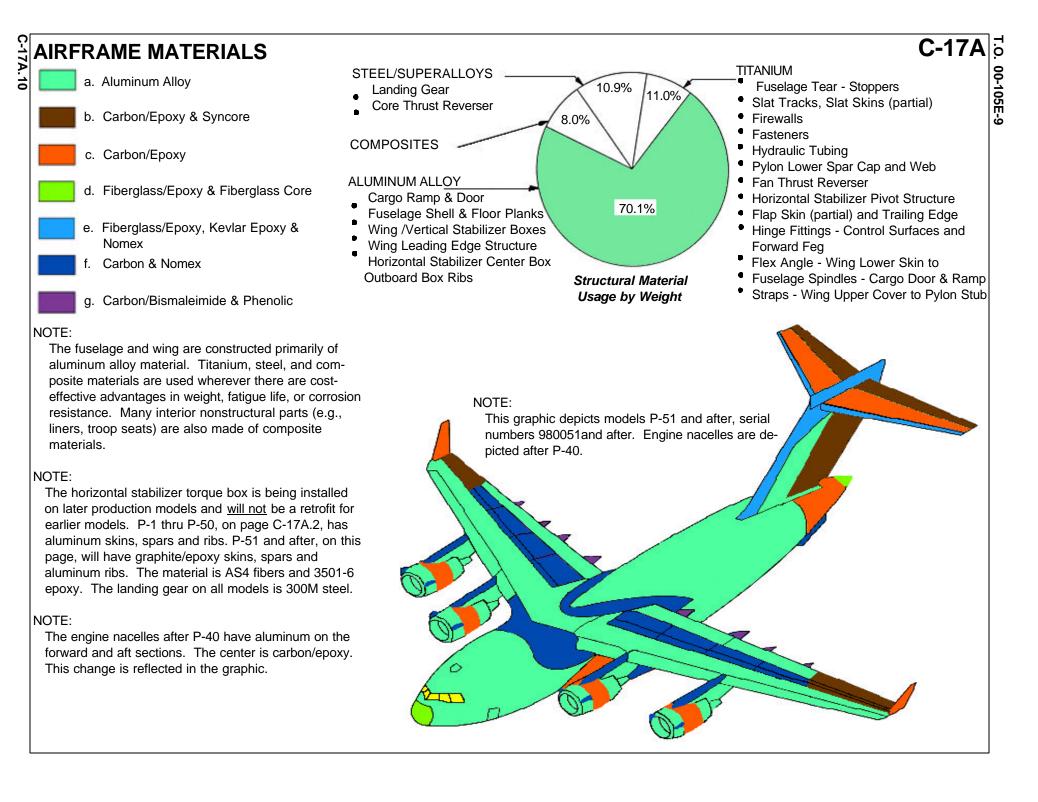
NOTE:

The distances defined in the table to the right will define the Laser Hazard Zone. Distances are measured on the ground from directly below the Aft SLTA, as shown. The 20-foot distance shown does not consider the height of the SLTA.

SINGLE SLTA CONFIGURATIONS (Not to Scale)									
OFFE (Not to Scale)									
IGNITION HAZARD ZONE HAZARD DISTANCE SUMMARY FOR IRCM LASER TABLE									
Wavelength	Hazard Type	Exposure Duration (sec)	Unaided Viewing (meters) [ft]	7 x 50 mm Binocular (meters) [ft]	8 cm Binocular (meters) [ft]	12 cm Telescope (meters) [ft]			
Multiple (Single SLTA)	Intra-Beam Viewing NOHD	10	40 [132]	185 [607]	296 [971]	445 [1,460]			
	Skin NSHD	10	40 [132]	N/A	N/A	N/A			
Multiple (Two of Three	Intra-Beam Viewing NOHD	10	57 [187]	263 [863]	420 [1,378]	629 [2,064]			
SLTAs)	Skin NSHD	10	57 [187]	N/A	N/A	N/A			
NOHD - Nominal Optical Hazard Distance									



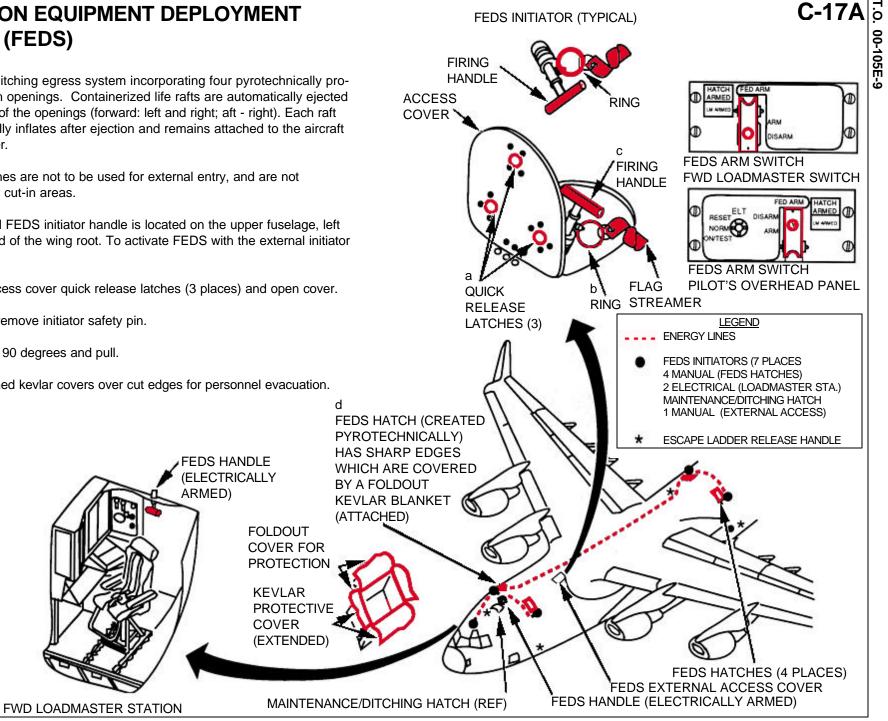




FLOTATION EQUIPMENT DEPLOYMENT 17A. 11 SYSTEM (FEDS)

NOTE:

- FEDS is a ditching egress system incorporating four pyrotechnically produced hatch openings. Containerized life rafts are automatically ejected from three of the openings (forward: left and right; aft - right). Each raft automatically inflates after ejection and remains attached to the aircraft with a tether.
- FEDS hatches are not to be used for external entry, and are not • emergency cut-in areas.
- The external FEDS initiator handle is located on the upper fuselage, left side, forward of the wing root. To activate FEDS with the external initiator handle.
- a. Release access cover quick release latches (3 places) and open cover.
- b. Pull ring to remove initiator safety pin.
- c. Turn handle 90 degrees and pull.
- d. Place attached keylar covers over cut edges for personnel evacuation.



C-17A. 12 FEDS HAZARD AREA

WARNING

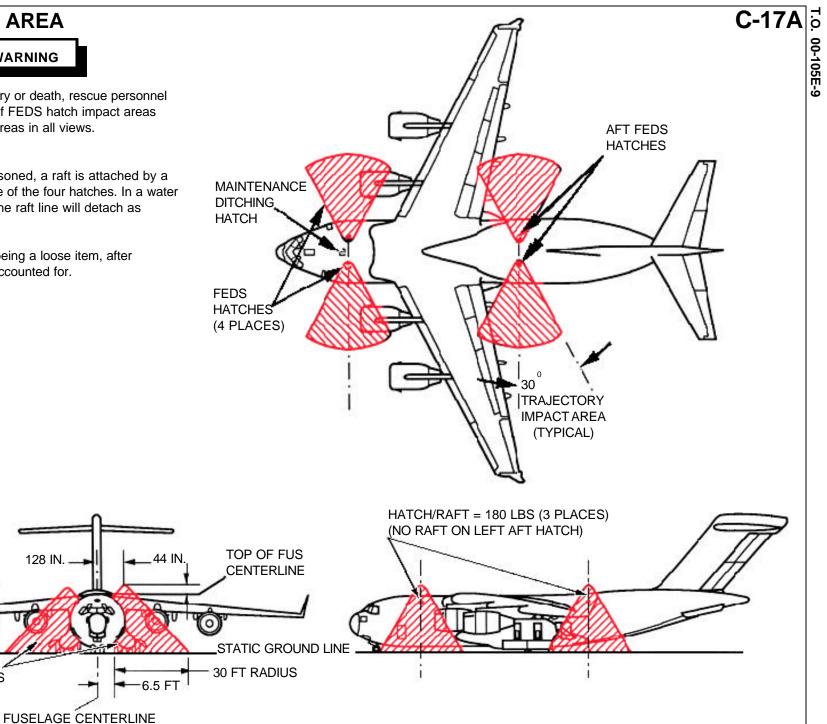
To avoid possible injury or death, rescue personnel should remain clear of FEDS hatch impact areas depicted as shaded areas in all views.

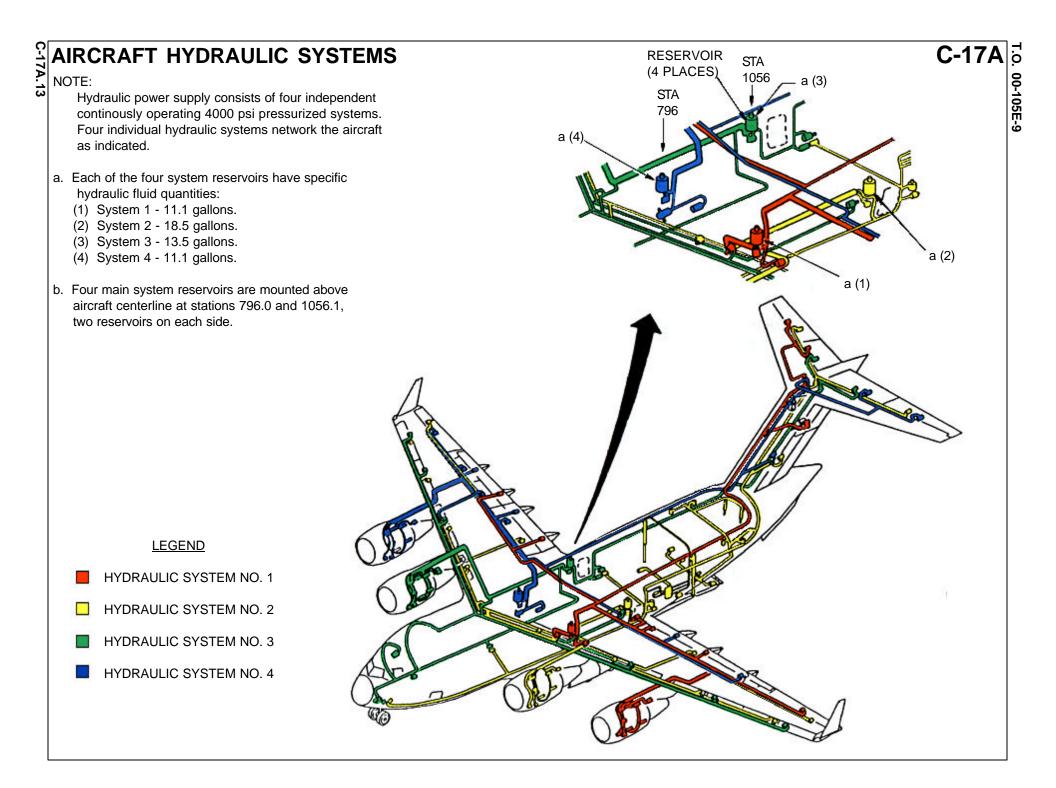
NOTE:

- When hatch is jettisoned, a raft is attached by a 36 foot line on three of the four hatches. In a water ditching situation, the raft line will detach as aircraft submerges.
- The raft container being a loose item, after separation, is not accounted for.

DANGER AREAS

(BOTH SIDES)

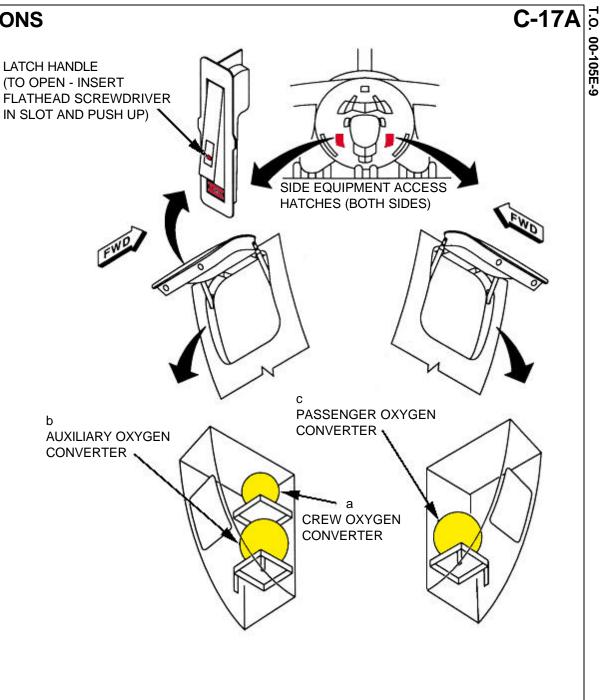




C-17A.14 **AIRCRAFT OXYGEN SYSTEM LOCATIONS**

NOTE:

- The aircraft oxygen system consists of three separate oxygen converters located approximately eight feet above ground level.
- a. The crew oxygen system consists of one 25 liter converter located in the right nose compartment. (Minus 87-0025, 88-0265, and 88-0266.)
- b. The auxiliary converter (75 liters) is also located in the right nose compartment directly below the crew converter.
- c. The passenger converter (75 liters)is located in the left nose compartment opposite the crew converter. Access is similar to crew and the auxiliary converter inside a protective shroud. (Minus 87-0025, 88-0265, and 88-0266.)



C-17A.15 AIRCRAFT OXYGEN SYSTEM **LOCATIONS-Continued**

- d. The auxiliary oxygen system manual shutoff valve is located at the forward loadmaster station, FS 300.
- e. The passenger converter manual shutoff valve is located forward of the galley at FS 400.
- f. The crew oxygen converter manual shutoff valve is located on the co-pilot's console at FS 180.

AIRCRAFT PORTABLE OXYGEN SYSTEM LOCATIONS

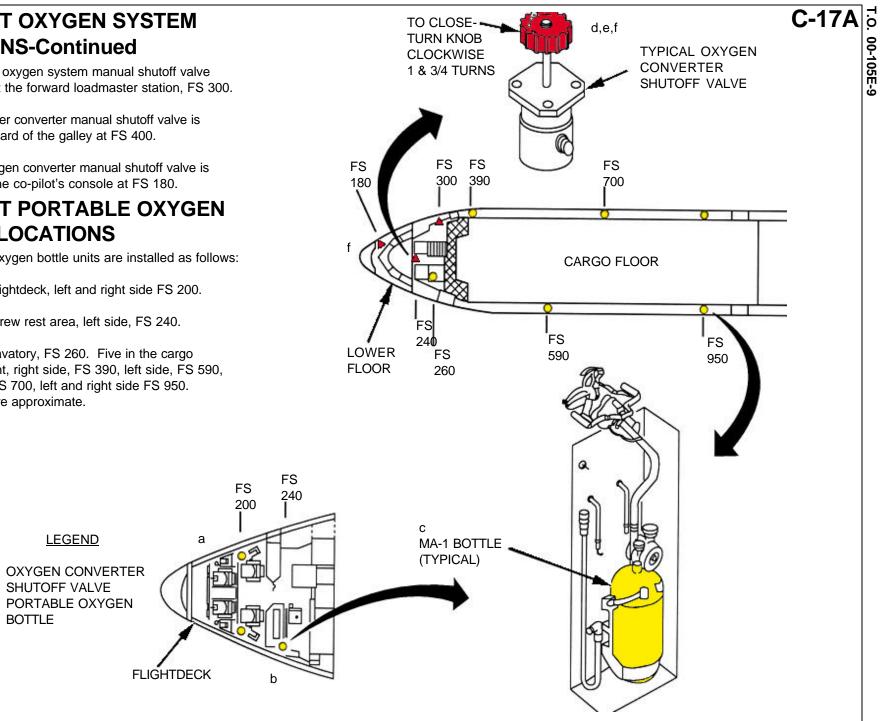
Nine portable oxygen bottle units are installed as follows:

- a. Two in the flightdeck, left and right side FS 200.
- b. One in the crew rest area, left side, FS 240.

0

BOTTLE

c. One in the lavatory, FS 260. Five in the cargo compartment, right side, FS 390, left side, FS 590, right side, FS 700, left and right side FS 950. Locations are approximate.



ONBOARD INERT GAS GENERATING SYSTEM 17A.16 (OBIGGS-LEGACY)

NOTE:

OBIGGS generates Nitrogen Enriched Air (NEA) for use in the fuel tanks. The NEA is used to keep fuel vapors in the fuel tank wing (ullage) areas inert (below the ignition point) during all phases of operation except refueling. The OBIGGS functions automatically.

NOTE:

OBIGGS switch controls are located on the overhead panel within the flight compartment for flight activity. Ground operation of this system is controlled through a panel located on the maintenance monitor system located near the forward loadmaster station.

- a. Two identical half systems consisting of two sets (4 cylinders each) are located under the cargo floor at station 708.5. Each cylinder is isolated by check valves and has a thermal fuse, burst disc and storage relief valve which will open if system pressure is exceeded.
- b. The OBIGGS inert panel is located on the pilot's overhead panel. Shutting both inboard engines down will eliminate No. 2 and No. 3 hydraulic pressure to compressor motors causing automatic OBIGGS system shutdown. Additionally, the inert panel FAIL lights will illuminate.

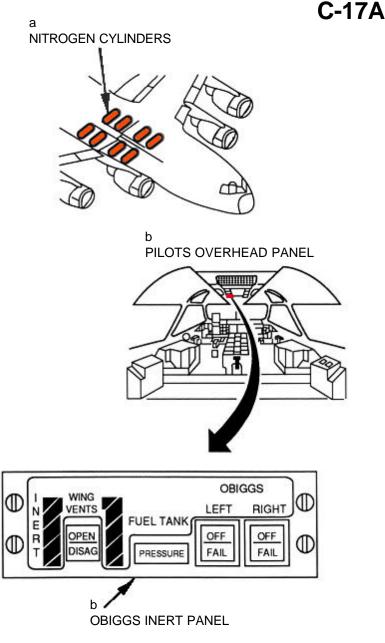
ONBOARD INERT GAS GENERATING SYSTEM (OBIGGS II) NOTE:

The OBIGGS II System NEA is generated by passing pressurized air through permeable membrane fibers that permit oxygen molecules to vent overboard leaving the air stream enriched with nitrogen. The OBIGGS II eliminates the need for cylinders and is comprised of two identical independent half-systems (one on each side of the aircraft) that are interconnected. Each system is supplied by the

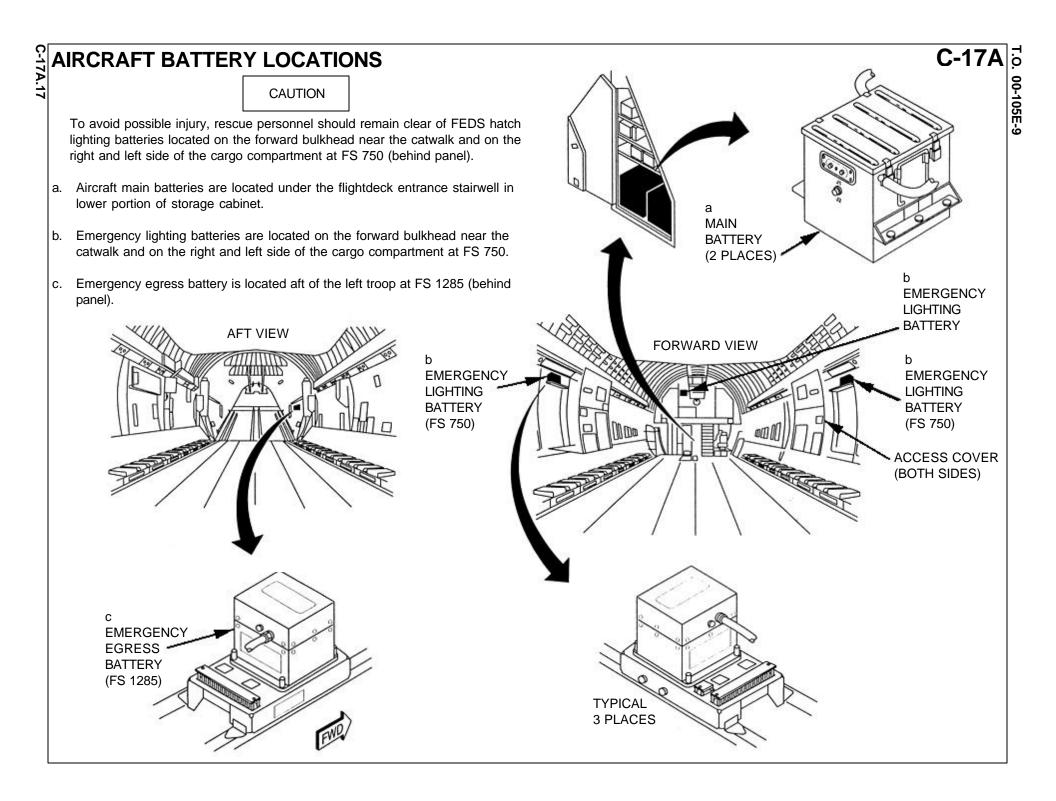
ECS bleed air manifold that supplies the air conditioning packs and anti-icing systems. Bleed air from the engines, APU, or a ground cart is required for the OBIGGS to operate. Each system contains a boost compressor, temperature control, filter, a set of air separation modules, and the valves and ducting to supply NEA to both the fuel tanks and vent system. Each system supplies NEA to the tanks on the same side of the aircraft.

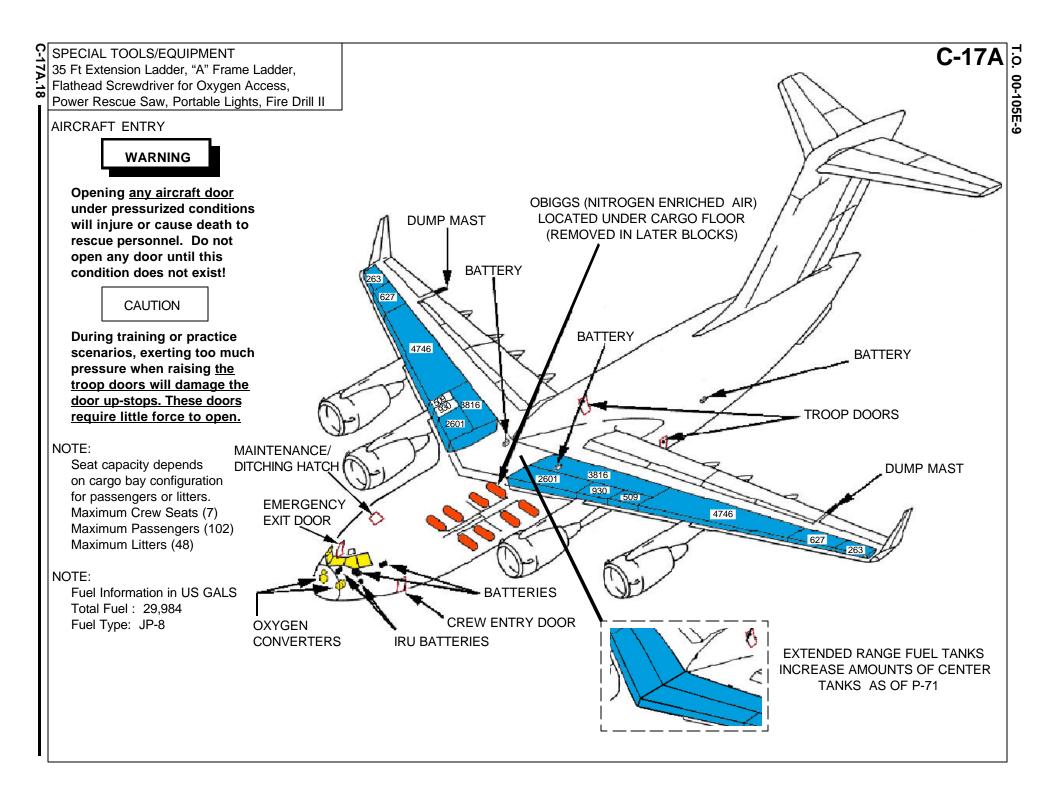
NOTE:

OBIGGS operation is completely automatic. The OBIGGS switches on the cockpit overhead panel are normally on, but can be manually selected off. The Maintenance Monitor Panel in the forward cargo compartment next to the cockpit stairs is used for ground operation.



00-105E-9





1. CREW ENTRY DOOR

WARNING

DO NOT open any door to this aircraft until it has been depressurized. Any attempt to open a door can result in injury or death to personnel attempting to do so. Door(s) will blow outward under pressure when unlocked or jimmied.

NOTE:

The crew entry door is located on the left side of the aircraft forward of the wing.

a. EXTERNAL OPERATION

- Push small flap door next to door locking handle to grip handle. Pull out door locking handle to retract locking pins.
- (2) Depress release lever, located next to door unlatching handle, and simultaneously pull out on unlatching handle until the release lever engages the detent to lift door over stops.
- (3) Pull down on door with locking handle until retract able lower step sets on ground.

NOTE:

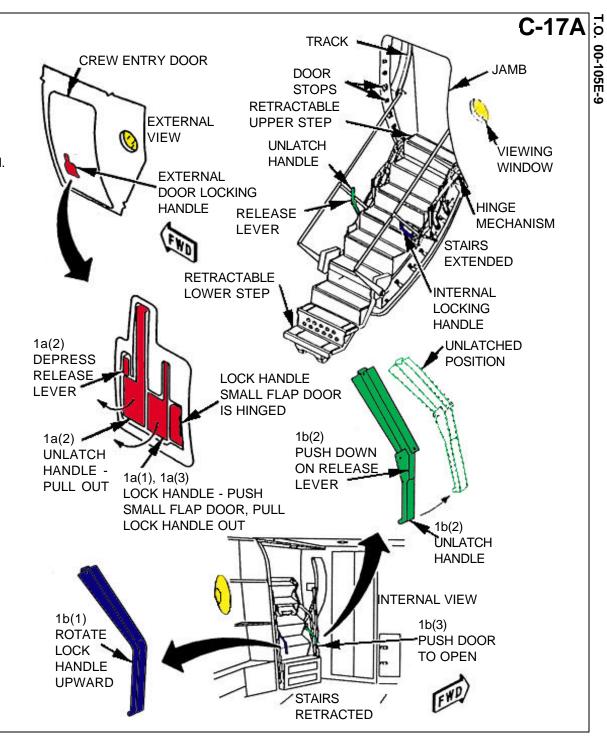
Door is counterbalanced to prevent free fall.

b. INTERNAL OPERATION

WARNING

To prevent personnel injury or damage to the door, visually clear the outside area using the viewing window adjacent to the door.

- The blue door lock handle is located adjacent to left door railing. Raise lock handle upward to unlock door.
- (2) The green door latch handle is located adjacent to right door railing. Depress the thumb release and lift the latch handle to full up to lift door off stops.
- (3) Push door open. Door will open by its own weight To extend steps, push up and out on handrails.



2 1c. MODIFIED CREW ENTRY DOOR EXTERNAL OPERATION

NOTE:

The C-17 fleet underwent a modification to the crew entry door. The fleet is 100% completed. This modification affects the external unlocking and opening of the crew entry door by the use of a new larger inside release lever and outside lock handle secured by a new flap door located at the bottom portion of the crew entry door. Also the door, inside handles, and handrails have been changed.

WARNING

Coordinate with the flight deck to verify that pressure is zero, outflow valve is full open, and an additional exit is open prior to opening crew entry door. Failure to comply could cause personnel injury/damage to the aircraft. Do not stand in front of crew entry door.

NOTE:

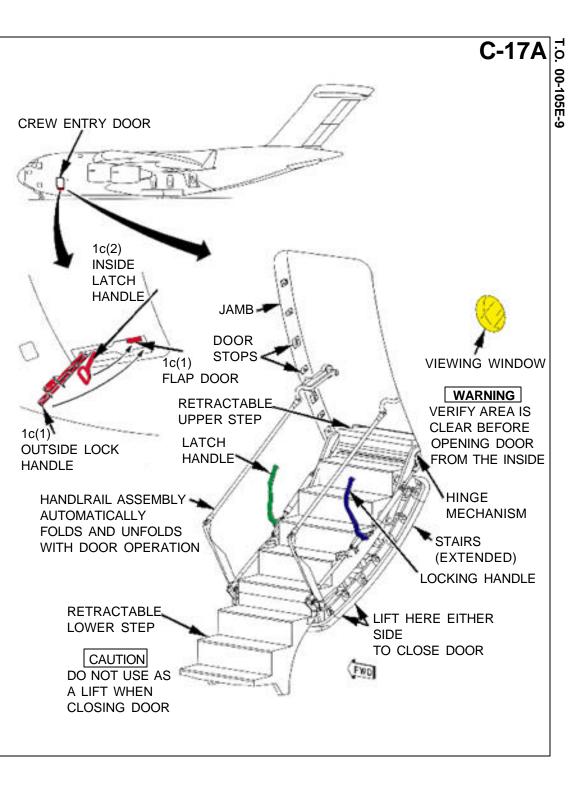
The crew entry door is located on the left side of the aircraft forward of the wing.

- (1) To unlock Push flap door and pull up on outside lock handle.
- (2) To unlatch Push the release lever and pull out on the inside latch handle.

CAUTION

Do not apply a load on the crew door when the retractable lower step is not supported. It is permissible for a crewmember to enplane/deplane using the crew door to position a support. No weight restrictions apply. Failure to comply may cause damage to the aircraft.

(3) Pull down on the door until the steps rest on the ground. Door opens outward from the top. Door is hinged at the bottom and counterbalanced to enable one person to open or close the door.



2. FLIGHTDECK ACCESS DOOR

NOTE:

A flightdeck access door is located above the flightdeck stairwell leading from the cargo compartment into the flightdeck area.

- a. If the access door is in the closed position, pull down on latch release and push door upward and secure against access door handrail retainer.
- 3. TROOP DOOR

CAUTION

During training or practice scenarios, exerting too much pressure when rasing <u>the troop doors will damage the door</u> <u>up-stops. These doors require little force to open.</u>

NOTE:

A troop door is located on the left and right side of the aircraft aft of the wing root. The doors are 43 inches wide by 80 inches high and weigh approximately 195 pounds each. The doors are counterbalanced to assist in opening and closing.

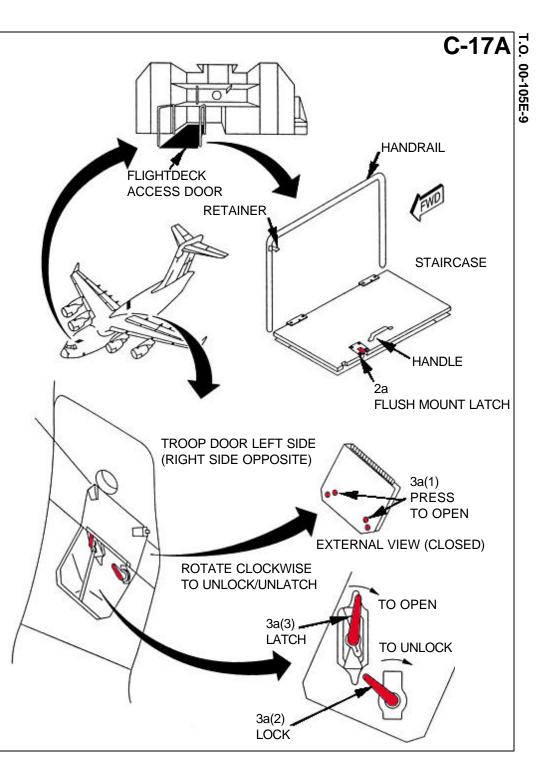
a. EXTERNAL OPERATION

 Open troop door control access cover, located under door window, by pressing the two push buttons to quickly release the cover latches.

NOTE:

On the left side of the aircraft outside handles rotate clockwise to unlock and unlatch. On the right side of the aircraft outside handles rotate counterclockwise to unlock and unlatch.

- (2) Rotate locking handle, the lower right smaller handle, to the unlock position.
- (3) Rotate latching handle, the upper left larger handle, to the unlock position.



3b. INTERNAL OPERATION

- (1) To open: Rotate the lock/unlock handle counterclockwise. lower small handle in center of door, to unlock position.
- (2) Rotate operating handle, located above lock/unlock handle, and raise door until the door is held in the uplock.
- (3) Use lift handle to raise door.
- (4) Pull escape rope from container and place outside door frame for egress.
- (5) To close: Push up on door, pull release handle, lower door. Depress the operating handle release pushbutton and rotate operating handle. Rotate the lock/unlock handle clockwise to lock the door.

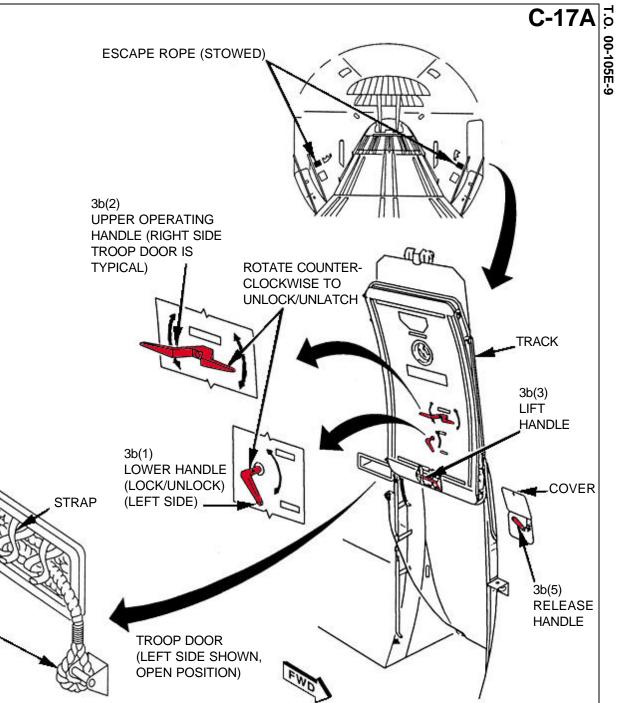
NOTES:

- On the left side of the aircraft inside handles rotate counterclockwise to unlock and unlatch.
- On the right side of the aircraft inside handles • rotate clockwise to unlock and unlatch.
- Normal height from troop door sill to ground ٠ is approximately 5' 3".

3b(4)

ROPE

ESCAPE



4. FORWARD EMERGENCY ESCAPE DOOR

NOTE:

The forward emergency escape door is located on right side of aircraft opposite crew entry door.

a. EXTERNAL OPERATION

- (1) Operating handle is recessed within door. Push in on center cover, pull external handle outward and up.
- (2) Push door inboard on pivot/anchor assembly and remove as required.

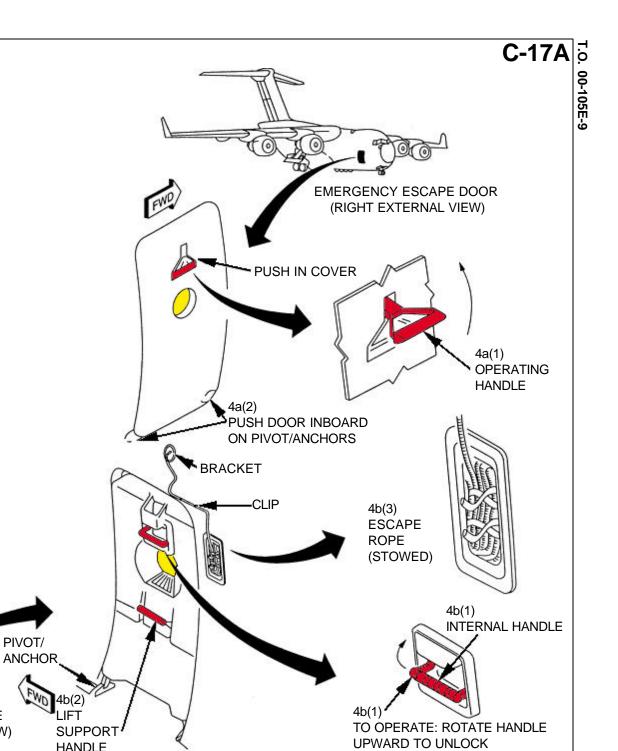
NOTE:

This is a plug type door weighing approximately 50 lbs. Door is 26 inches wide and 55 inches high.

- b. INTERNAL OPERATION
 - (1) Pull operating handle inward and up. door will raise up off of seal.
 - (2) Lift door by using lift support handle inward on pivot/anchor and stow, setting door to the side for egress.
 - (3) Pull escape rope from container and place outside door frame for egress. Height from door sill to ground is approximately 5'9".

EMERGENCY ESCAPE

DOOR (INTERNAL VIEW)



7A. 24 5. CARGO RAMP BLOWDOWN SYSTEM

NOTE:

The ramp blowdown system is used to rapidly open the ramp and provide area lighting for aeromedical evacuation. The ramp blowdown system is deployed from either the forward or aft loadmaster's control panel, left side. Each control consists of two red guarded switches.

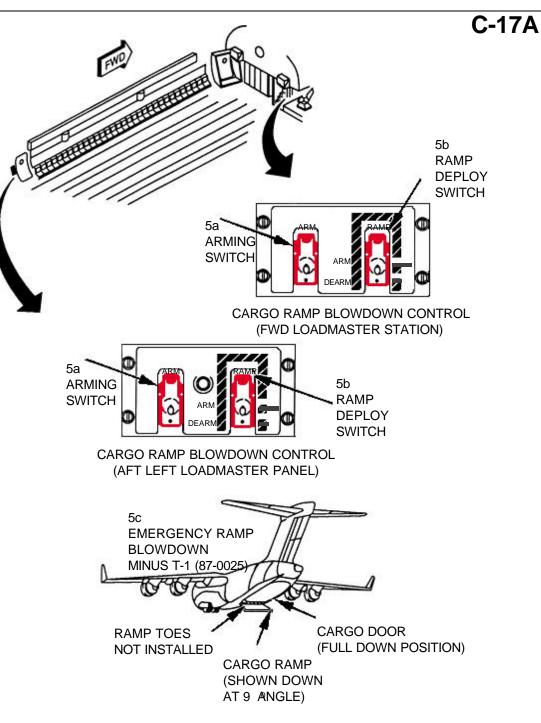
- a. To initiate Blowdown sequence, raise the red guard and place arming switch to the armed position and hold.
- b. Raise red guard on ramp deploy activator, place and hold switch in deploy position until ramp deploys.
- c. The cargo ramp will automatically deploy to the full down position. Emergency cargo ramp lights will illuminate to aid in evacuating the aircraft.

WARNING

- To prevent personnel injury and damage to equipment, ensure that personnel and equipment are clear prior to operating ramp.
- When initiating ramp blowdown, the cargo door may be locked in the down position. If cargo is centered loaded in the down position. If cargo is center loaded on cargo ramp, evacuate litter personnel down either side of ramp. Cargo ramp toes will have been removed to facilitate evacuation of medical personnel.

NOTE:

The cargo door in the closed position allows for a vertical opening of 66 inches at centerline to 78 inches at outer edges.



6. EMERGENCY CUT-IN

NOTE:

N

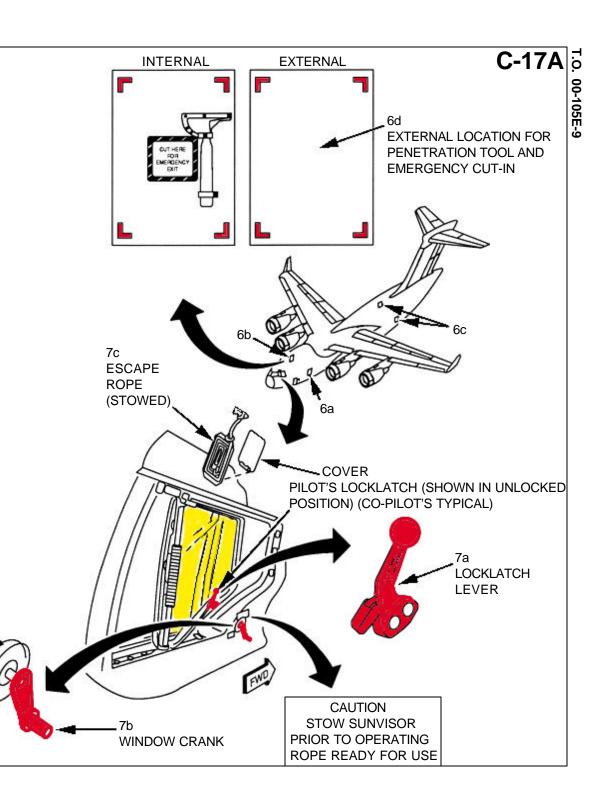
Emergency cut-in areas are provided for use if doors and hatches become jammed or inacces sible. Clearly marked areas on each side of the aircraft indicate proper locations for entry by cutting through the aircraft skin. Cut-in areas are located:

- a. Aft of crew entry door on left side of the aircraft.
- b. Aft of forward emergency escape door on right side of the aircraft.
- c. Aft of troop door above the juncture of the cargo ramp and cargo door on the left and right sides of the aircraft.
- d. Aircraft skin penetration points are limited to the center portion of the cut-in areas only.
- 7. SLIDING CLEARVIEW COCKPIT WINDOWS.



To prevent obstructing egress, stow the sun visor prior to operating the clearview windows.

- a. Both clearview windows are operated by depress ing the lock latch lever located forward of the sliding window sill, and rotating the lever aft to unlock window.
- b. To open the window, push in window crank handle to engage, and rotate handle. (Pilot's counter-clockwise, Copilot's clockwise)
- c. An escape rope is provided above each pilot's clearview window.



8. MAINTENANCE/DITCHING HATCH

NOTE:

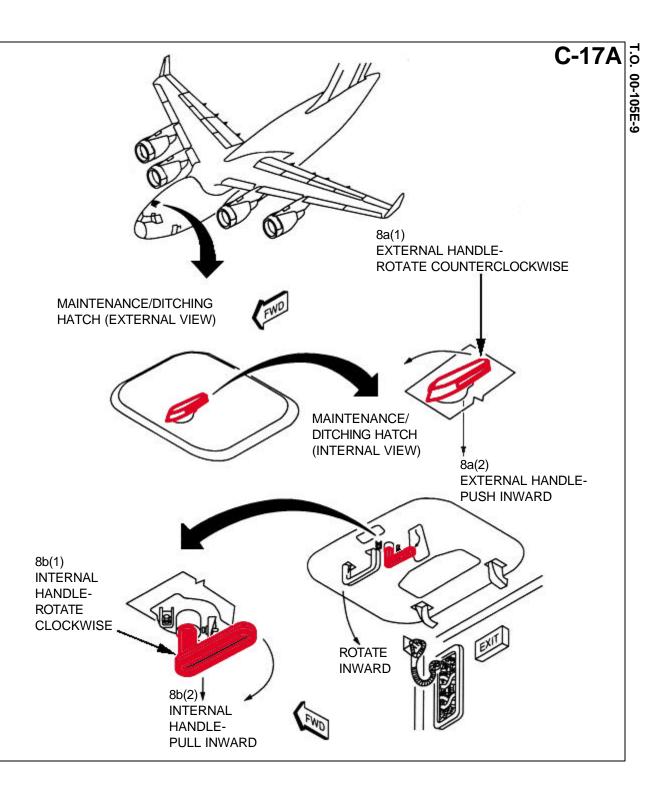
The maintenance/ditching hatch, located at top centerline in the crew bunk area, is a 26 inch X 26 inch manually operated plug type hatch that also serves as an egress for exterior maintenance of the aircraft. Internal access to this hatch is from the crew rest area, up the crew bunk area ladder, and to the aft end of the bunk area where another short rigid ladder aids in egress through the open hatch. Descent is made down the side of the aircraft by use of an escape rope.

a. EXTERNAL OPERATION

- (1) Rotate handle counterclockwise to open position.
- (2) Push inward to overcome hinge spring pressure and open hatch.

b. INTERNAL OPERATION

- (1) Rotate handle clockwise to open position.
- (2) Push inward to overcome hinge spring pressure and open hatch.

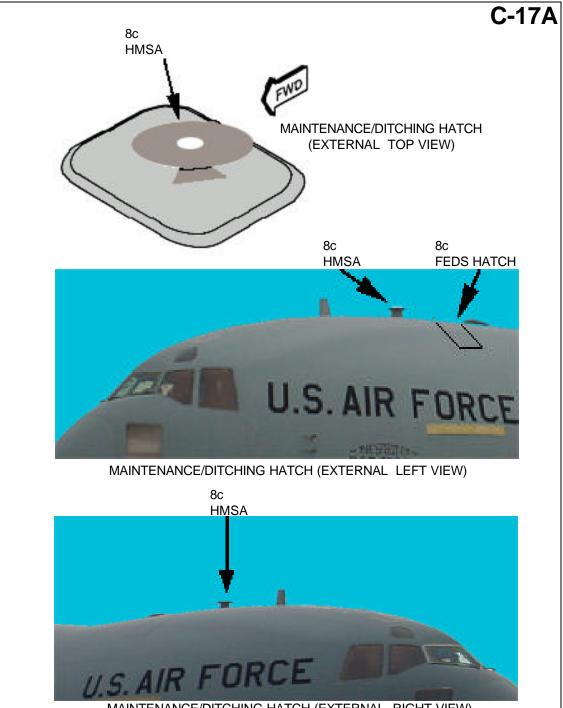


P 8. MAINTENANCE/DITCHING HATCH - CONTINUED

c. A Hatch Mounted Satellite Antenna (HMSA) may be installed in place of the maintenance/ditching hatch. The modified hatch weighs approximately 40lbs, and is not hinged. The HMSA hatch cannot be opened from outside the aircraft. While the HMSA hatch is installed, the unmodified hatch is restrained in the open position. The HMSA is opened from inside the aircraft by rotating the unlatch/open handle to the open position to release the locking pins. The primary exit for crewmembers in the cockpit is through the clearview windows or through a FEDS hatch. Crewmembers in the relief crew area will use the cargo area FEDS exits as their primary ditching exit. The HMSA should not be considered a usable/primary exit.

WARNING

Because the HMSA is not hinged, the HMSA will fall directly into the aircraft when the pins are released. Clear the area beneath the hatch and the catwalk prior to opening. Do not attempt to open the HMSA without assistance.



MAINTENANCE/DITCHING HATCH (EXTERNAL RIGHT VIEW)

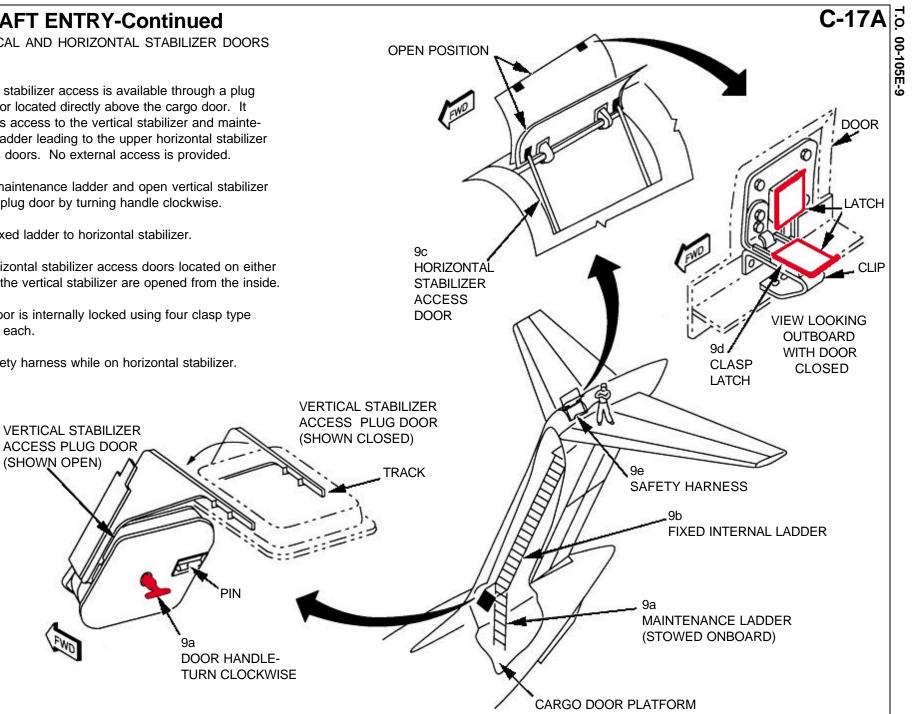
9. VERTICAL AND HORIZONTAL STABILIZER DOORS

NOTE:

Vertical stabilizer access is available through a plug type door located directly above the cargo door. It provides access to the vertical stabilizer and maintenance ladder leading to the upper horizontal stabilizer access doors. No external access is provided.

- a. Climb maintenance ladder and open vertical stabilizer access plug door by turning handle clockwise.
- b. Climb fixed ladder to horizontal stabilizer.
- c. The horizontal stabilizer access doors located on either side of the vertical stabilizer are opened from the inside.
- d. Each door is internally locked using four clasp type latches each.
- e. Use safety harness while on horizontal stabilizer.

(SHOWN OPEN)



10. BELLY ACCESS SERVICE HATCH

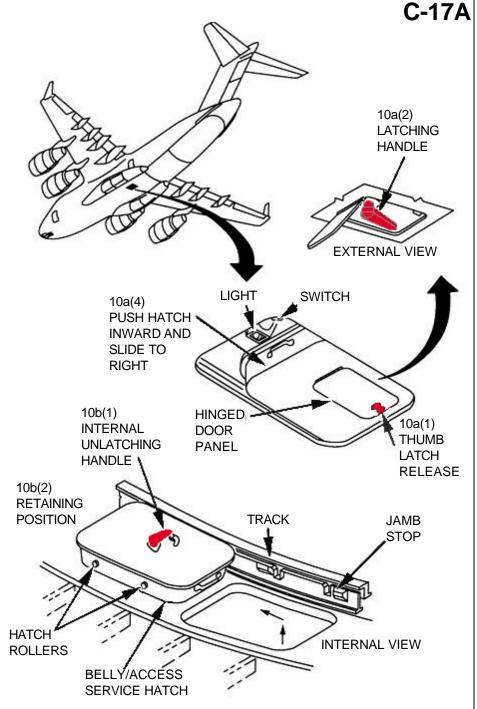
NOTE:

A belly access service hatch is provided for system maintenance under the aircraft cargo floor area.

- a. EXTERNAL OPERATION
 - (1) Open hatch control access cover by pressing thumb release latch.
 - (2) Rotate latching handle (large handle) clockwise to unlatch position.
 - (3) Close hatch cover before sliding hatch open to prevent jamming of the hatch.
 - (4) Push hatch inward and slide to open position (toward right side of aircraft) ensuring hatch is retained open by spring catch.
- b. INTERNAL OPERATION
 - (1) Rotate latching handle to unlatch position.
 - (2) Pull hatch upward and slide open (toward right side of aircraft) ensuring hatch is retained open by spring catch.

WARNING

- Do not enter the underfloor area until it is well ventilated. Injury or death to personnel may result. Nitrogen Enriched Air (NEA) in the Onboard Inert Gas Generating System (OBIGGS) storage system could leak into the underfloor environment creating a safety hazard.
- For emergency entry, Self Contained Breathing Apparatus (SCBA) is required.



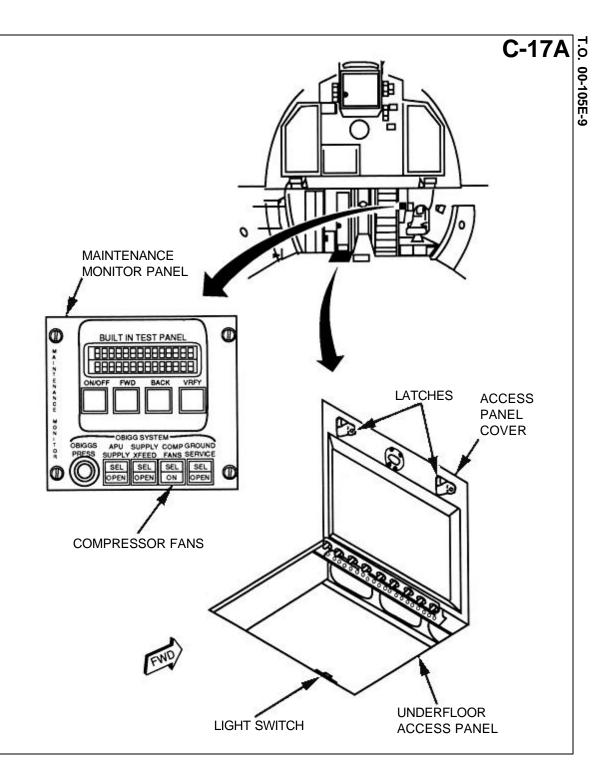
11. UNDERFLOOR ACCESS PANEL

NOTE:

Access to the underfloor maintenance area is provided through an entry in the cargo floor. The underfloor access panel is normally in the down and closed position for flight. A panel latch is provided on the aft center ledge for opening. Once opened, the access panel will swing up 90 degrees and rest against the lavatory entrance door. No securing device is provided. An underfloor light switch is provided on the aft portion of the access entrance well.



- Do not enter the underfloor area until it is well ventilated. Injury or death to personnel may result. Nitrogen Enriched Air (NEA) in the Onboard Inert Gas Generating System (OBIGGS) storage system could leak into the underfloor environment creating a safety hazard.
- For emergency entry, Self Contained Breathing Apparatus (SCBA) is required.



NOTE:

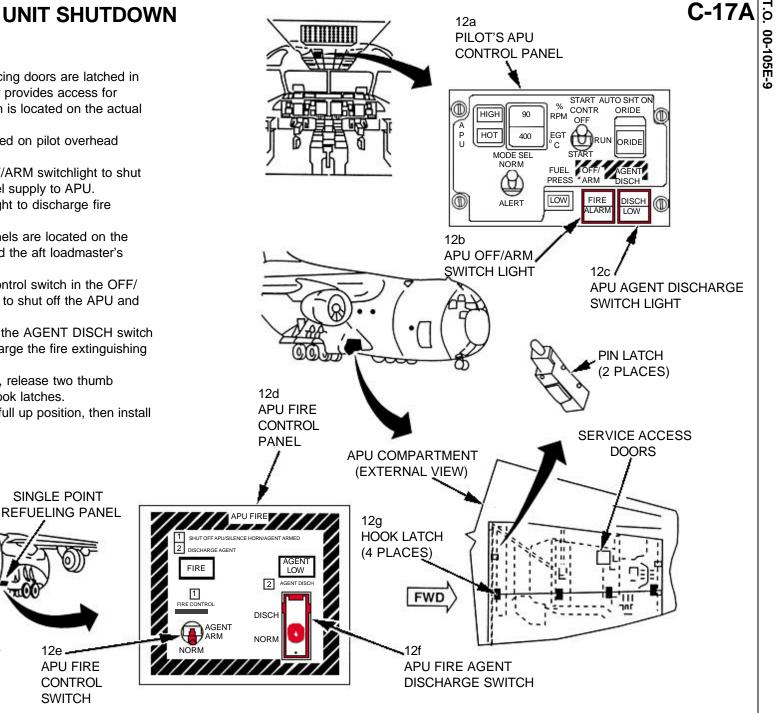
Two clamshell type APU servicing doors are latched in place. A small APU inlet door provides access for servicing. No start/stop switch is located on the actual APU.

- a. The APU control panel is located on pilot overhead panel, left side.
- b. In case of fire, press APU OFF/ARM switchlight to shut off electrical, hydraulic, and fuel supply to APU.
- c. Press AGENT DISCH switchlight to discharge fire extinguishing agent.
- d. The two APU FIRE control panels are located on the single point refueling panel and the aft loadmaster's station, left side.
- e. In case of fire, place the fire control switch in the OFF/ SILENCE position and release to shut off the APU and arm the discharge switch.
- f. Lift the switchguard and place the AGENT DISCH switch in the DISCH position to discharge the fire extinguishing agent.
- g. To open full size service doors, release two thumb release pin latches and four hook latches.

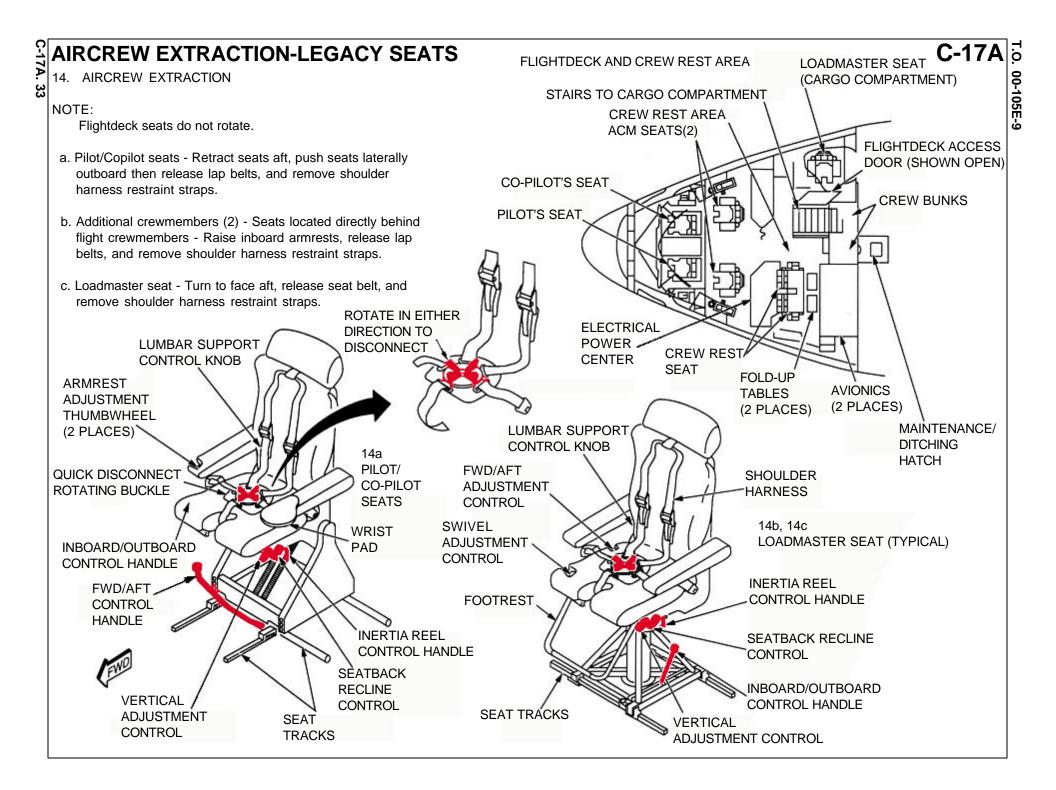
AFT LEFT LOADMASTER

CONTROL PANEL

(1) Open the top panel to the full up position, then install the support strut.



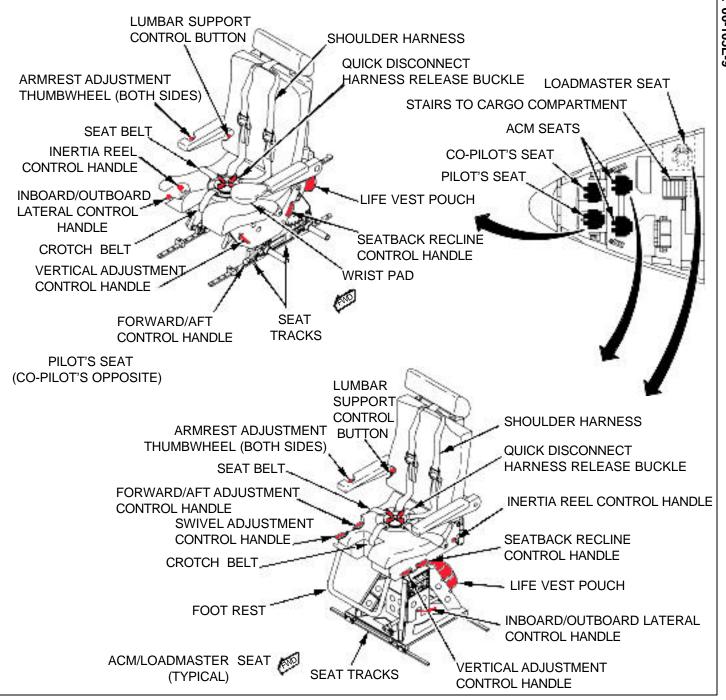
C-17A ENGINE EMERGENCY SHUTDOWN 7A. 32 00-105E-9 **13. ENGINE EMERGENCY SHUTDOWN** CAUTION ROTATE T-HANDLES ONLY IN CASE OF ENGINE FIRE. The extinguishing system is a two shot arrangement or a 13a shared system. If agents A and B are selected for any one ENGINE THROTTLES engine, the system for that wing will be depleted. Do not (DISPLAYED IN IDLE remove battery power prior to pulling FIRE T-HANDLES. POSITION) FULL IDLE a. Set throttles to idle position. REV b. Pull 4 FIRE T-HANDLES left, hold momentarily to release fire discharge agent A, turn FIRE T-HANDLES located on center portion of pilot instrument panel glare shield to shut off electrical, hydraulic, and fuel supply to engines. 13b. 13c c. Turn FIRE T-HANDLES left, hold momentarily to release ENGINE 1,2,3, AND 4 fire discharge agent A, turn FIRE T-HANDLES right to release FIRE HANDLES (PULL agent B. AND TURN, LEFT-AGENT A d. Pull BATTERY DIRECT BUS FEED circuit breaker located on the RIGHT-AGENT B overhead remote circuit breaker panel Row J, Column 17 to shut down emergency battery power. [FIRE 2 PULL] A AGENT B FIRE 3 PULL A AGENT B FIRE 4 PULL A AGENT B 1 PULL FIRE AGENT B REMOTE CONTROL CIRCUIT BREAKER OVERHEAD PANEL 13d PULL BATTERY DIRECT BUS FEED CIRCUIT BREAKER



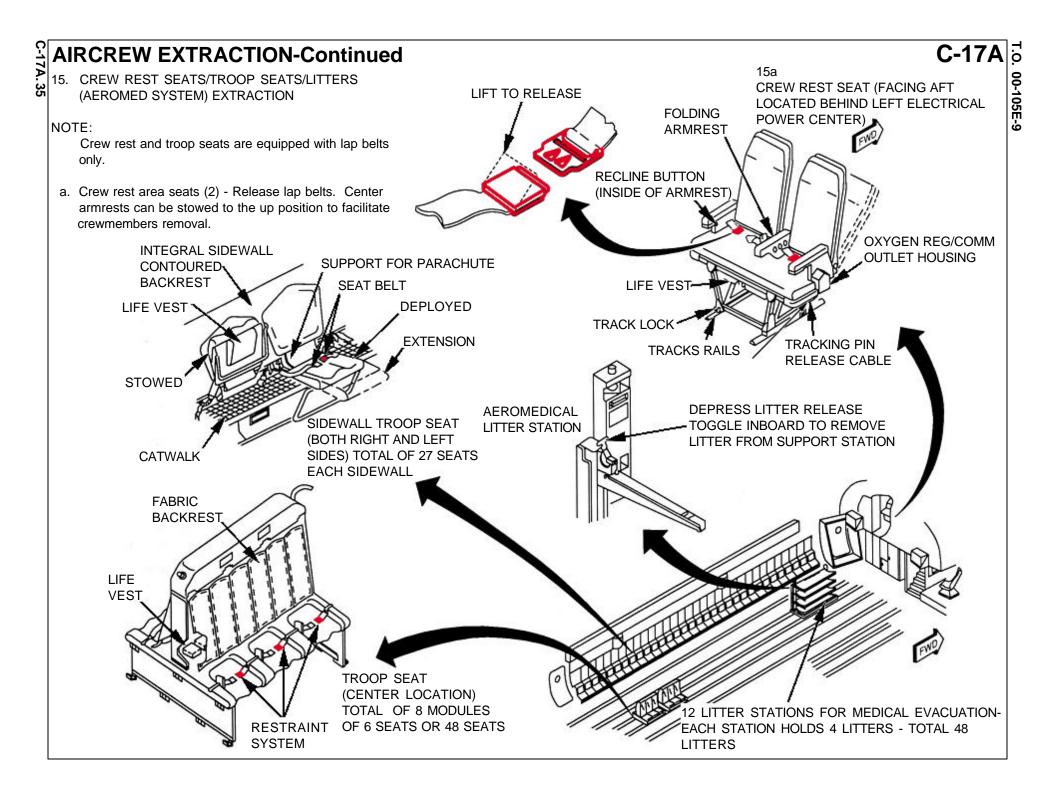
AIRCREW EXTRACTION-IPECO SEATS

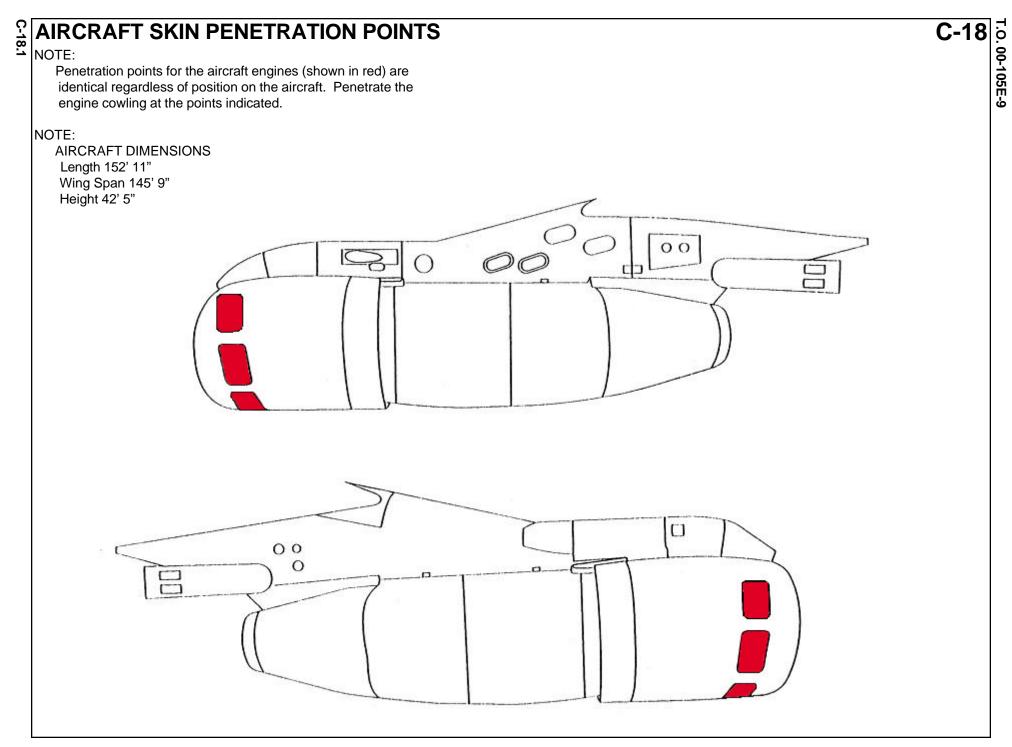
Z NOTE:

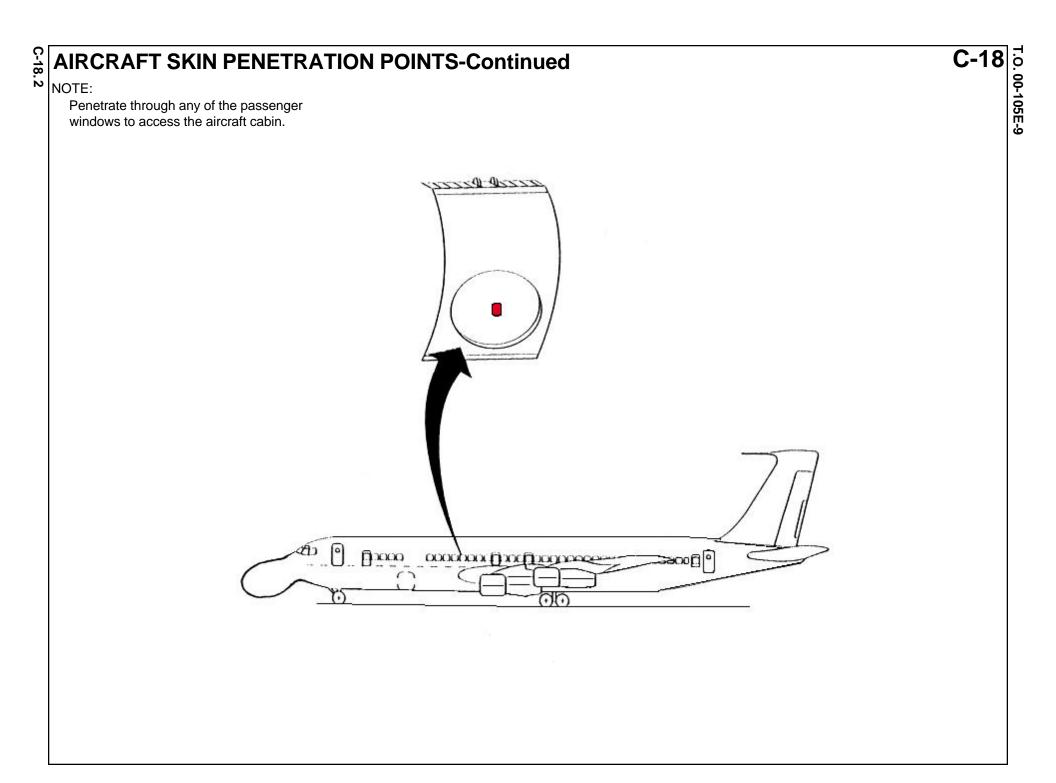
> New crew seats manufactured by lpeco are provided in the pilot, ACM and loadmaster positions on P-130 <FP> and subsequent aircraft. Although control locations may vary slightly by seat manufacturer, they operate the same, except as noted in this section. Ipeco and older (legacy) seats are interchangeable. Maintenance may replace a malfunctioning legacy seat on <AA>...<FN> with an lpeco seat, or may replace an lpeco seat with a legacy seat. On Ipeco seats, lumbar support is adjusted with a release button in lieu of a control knob. To adjust lumbar pads, press the button to release, adjust the spring-loaded lumbar support with body position, and release the button to lock in place. The seat bottom cushion on a legacy pilot, ACM and loadmaster seat may be used as a flotation device. Cushions on Ipeco seats may not be used as flotation devices. (Ref: 1C-17A-1)

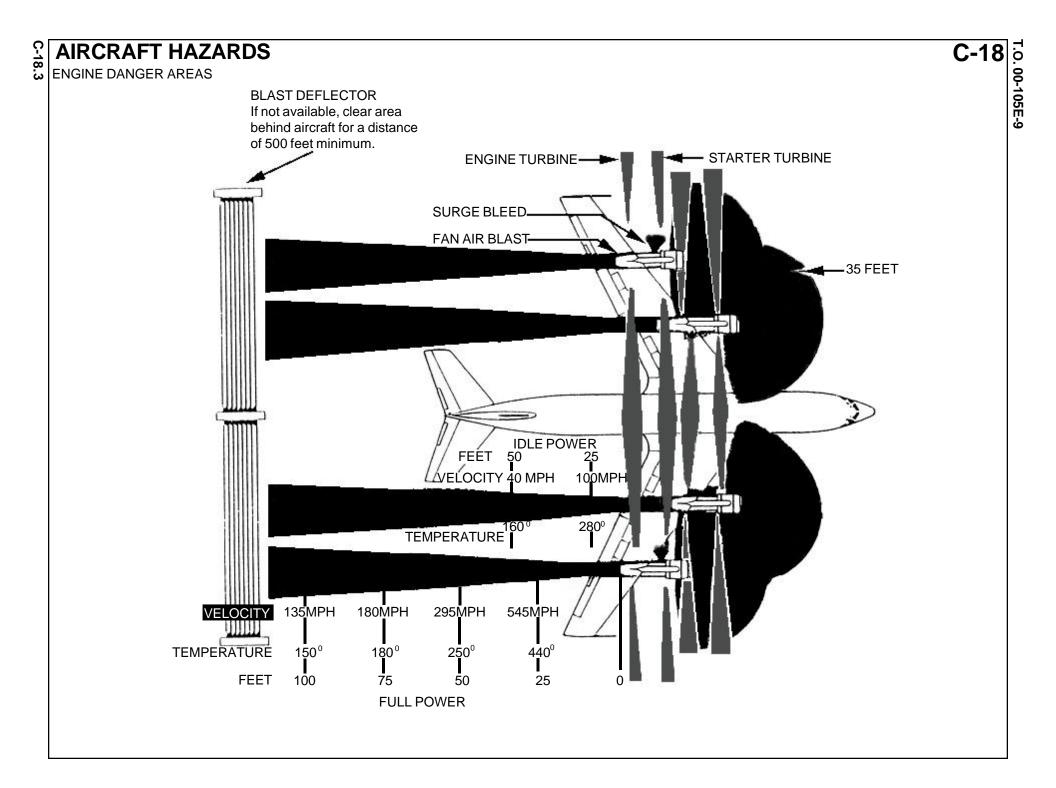


C-17A 00-105E-9









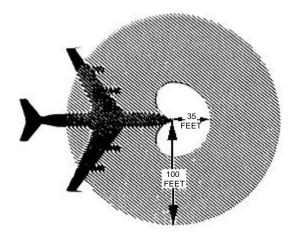
AIRCRAFT HAZARDS-Continued RADIATION HAZARD AREAS

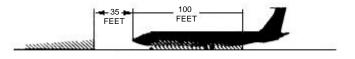
The radiation hazard area shown is around the weather radar antenna. Accidental entry into the hazard area does not result in injury. It is only through prolonged exposure that the possibility of danger exists.



AREA HAZARDOUS TO PERSONNEL

POSSIBLE FUEL IGNITION AREA





SPECIAL TOOLS/EQUIPMENT Power Rescue Saw 24 Ft Ladder Fire Drill II AIRCRAFT ENTRY ALL MODELS CREW: 5 PASSENGERS: 20 - 25 CONFIGURATION MAY VARY 1. NORMAL ENTRY a. FORWARD AND AFT ENTRY DOORS - Pull external handle outward and rotate clockwise, then push inward on forward side of door, pull outward on aft side and swing door out and forward. b. FORWARD AND AFT GALLEY DOORS - Pull external handle outward and rotate clockwise, then push inward on forward side of door, pull outward on aft side and swing door out and forward.

2. EMERGENCY ENTRY

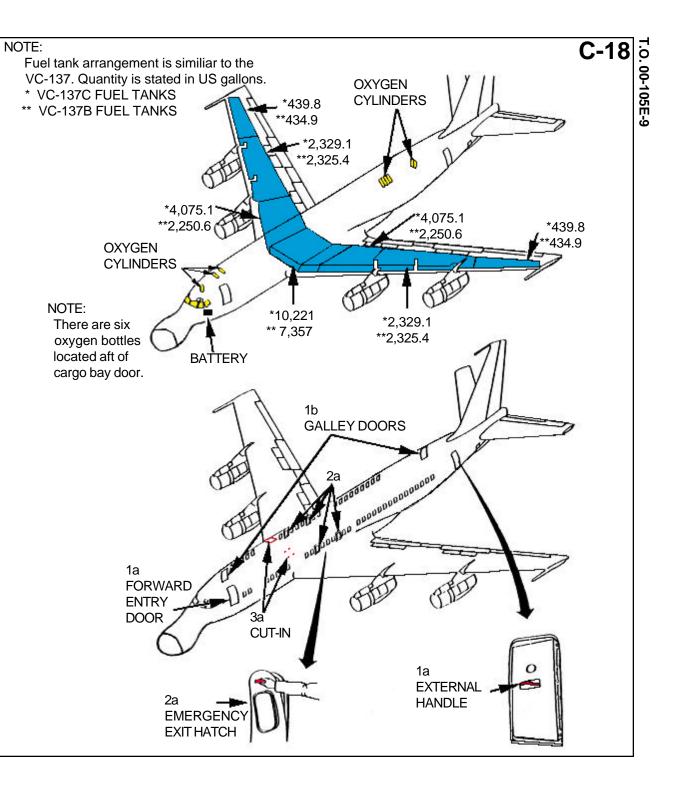
 Push in panel on emergency exit hatches, two each side above wing, and push hatches inward.

CAUTION

Emergency exit hatches must be handled with extreme care while pushing hatches inward.

3. CUT-IN

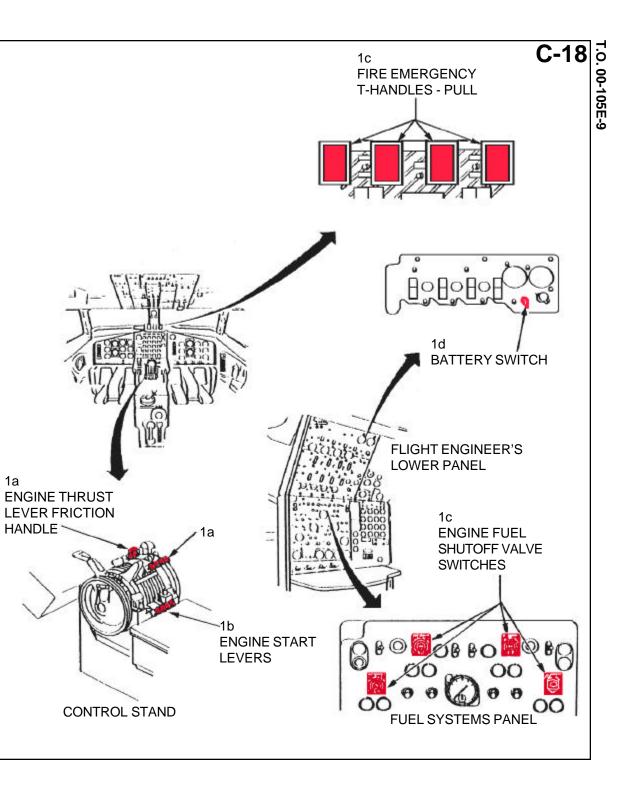
a. Cut-in emergency exit hatches located top forward center of fuselage over wings.



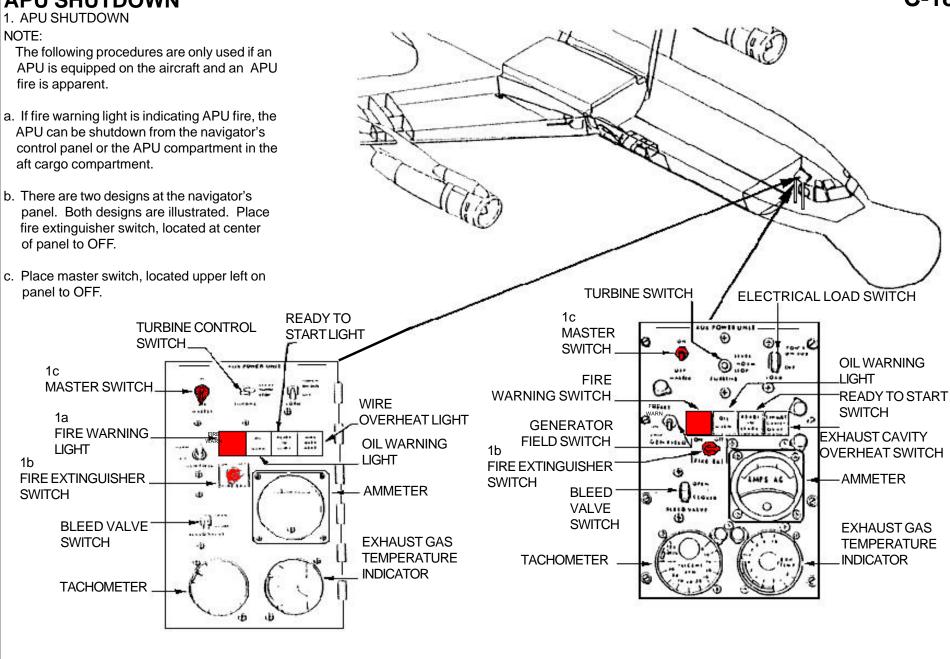
C-18.6 **ENGINE SHUTDOWN**

1. ENGINE SHUTDOWN

- a. Place engine thrust lever friction handle, located on control stand, to forward position, then retard engine thrust levers aft to IDLE position.
- b. Place engine start levers, located on lower portion of control stand, down to CUTOFF position.
- c. Pull fire emergency T-handles, located upper center of instrument panel, and place engine fuel shutoff valve switches, located on fuel system panel at engineer's station, to CLOSE position.
- d. Place battery switch, located on engineer's upper panel, to OFF position.



C-18.7 **APU SHUTDOWN**



C-18

AIRCREW EXTRACTION -

1. AIRCREW EXTRACTION

NOTE:

Pilot's seat is shown, copilot's seat is identical except controls are on left side. A modification has equipped all seats with Koch inertia reels. This equipment does not change extraction methods.

NOTE:

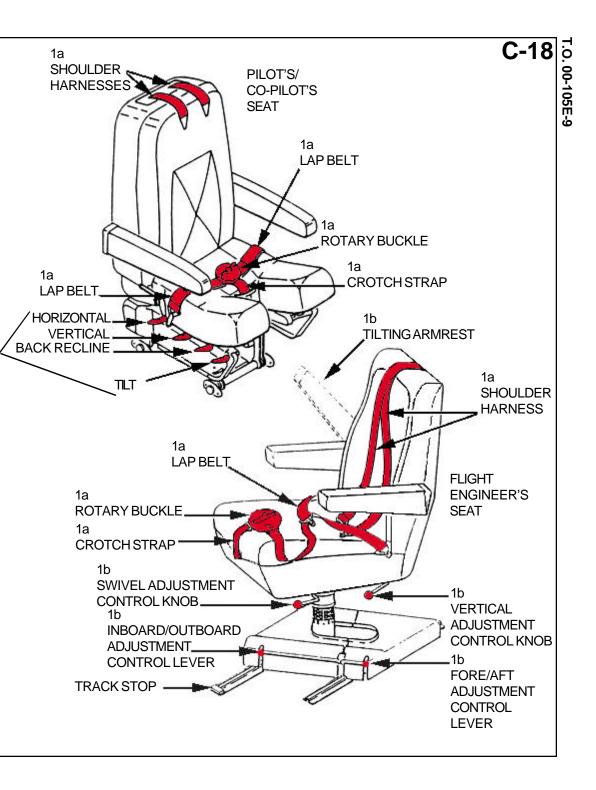
Flight engineer's seat will face within 30 degrees of forward for takeoff and landing.

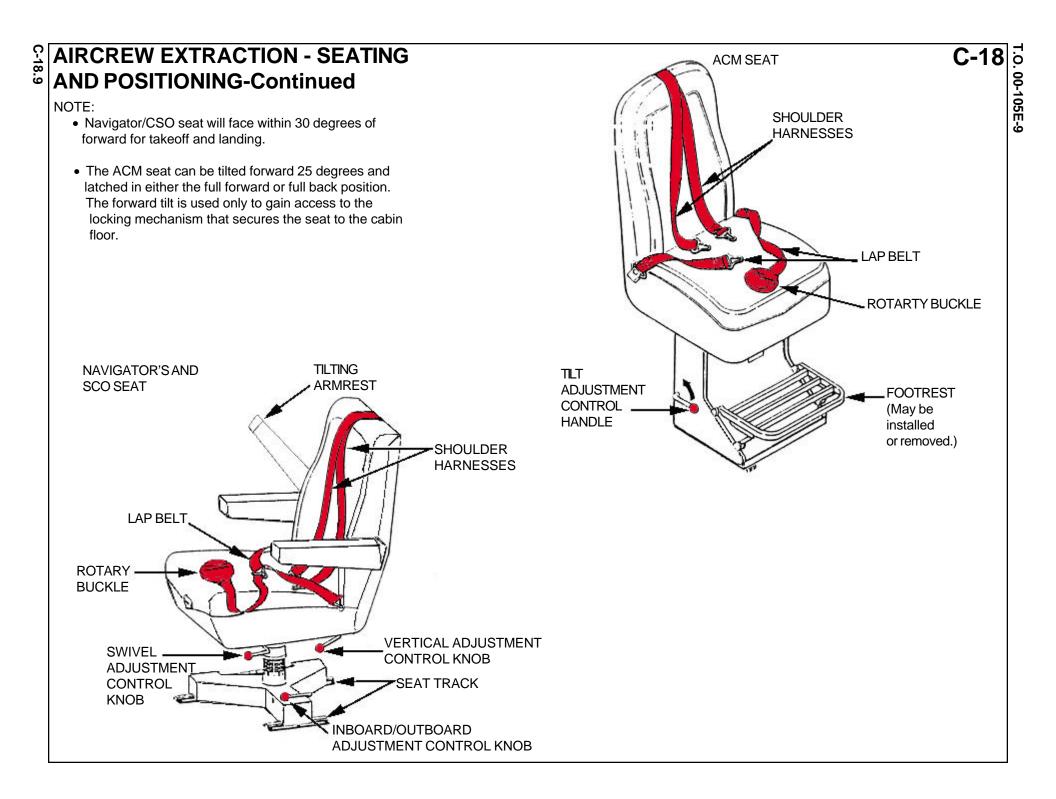
a. Release lap belt, crotch strap and remove shoulder harness from crew members by turning the rotary buckle in either direction.

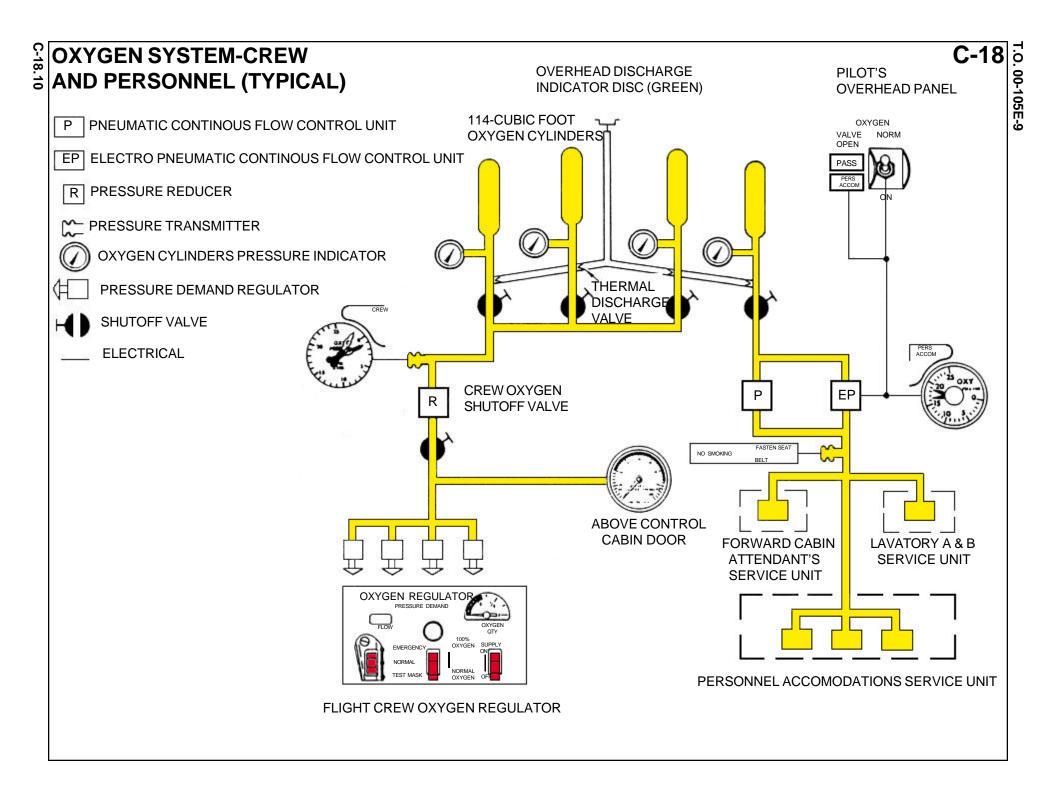
NOTE:

If seat tracks are not damaged during crash landing, use adjustable seat controls to retract seat to aft position. 1b

- b. Adjust seats and tilt armrests for ease of extraction.
- c. Release lap belts from passengers.









C-18D. 2 **TEST BED CONFIGURATION** FOR C-135 AIRCRAFT TAIL NUMBER: (C-18D) 81-0893 and 81-0895 CRUISE MISSLE MISSION CONTROL AIRCRAFT PASSENGER CAPACITY: 39.

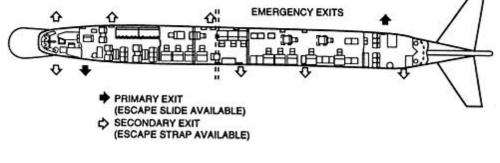
FUEL LOAD: 152.0 K. The fuel system will retain approximately 17,600 pounds of undumpable fuel.

ADDITIONAL OXYGEN BOTTLES: NO. The gaseous breathing oxygen is stored in ten 115cu.ft. oxygen cylinders. Six are located on the right side of the forward cargo area and four on the right side of the aft cargo area. This is true for all C-18s.

LOX CONVERTERS: NO. NITROGEN BOTTLES: NO. MODIFIED ESCAPE ROUNTES: NO. CHANGES FOR ENGINES/APU SHUTDOWN: NONE.

CHANGES IN ELECTRICAL/BATTERY POWER: The aircraft is equipped with a Class II Test Master Power Switch, located at the Flight Engineer's panel left side, which will disable all modification power without disturbing main aircraft power. See visual aid that is applicable to all C-18 models. Aircraft battery is located in right side of nose wheel well.

HINDRANCES/DIFFERENCES: This aircraft is extremely loaded with electronics. It is equipped with the aft entrance ladder in the aft baggage compartment.



29

28

27

26

25

24

23

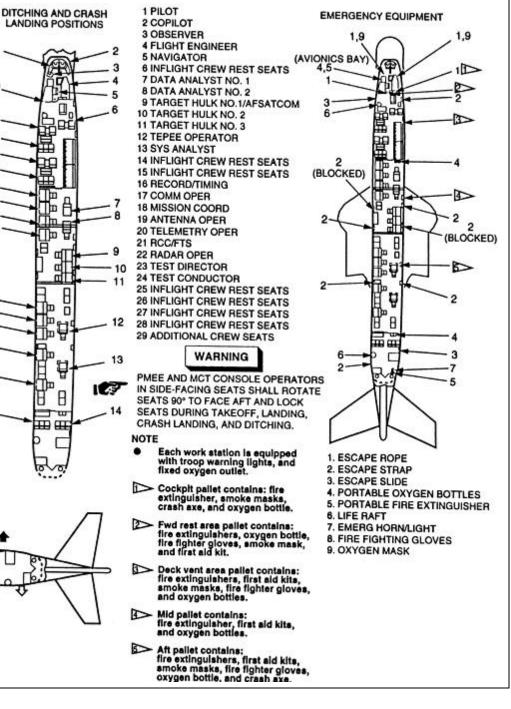
22

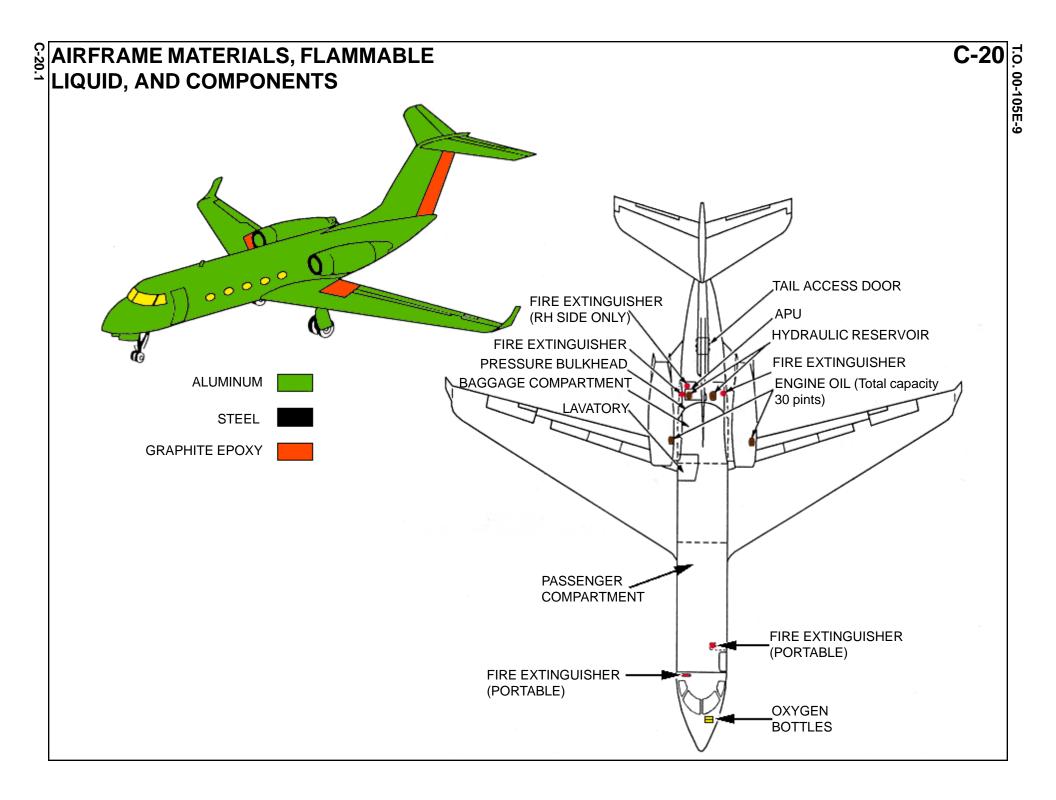
21

20

18

17



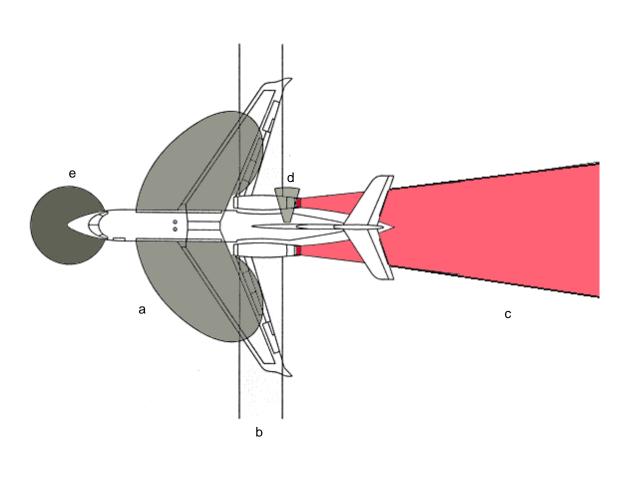


C-20.2 AIRCRAFT DANGER AREAS

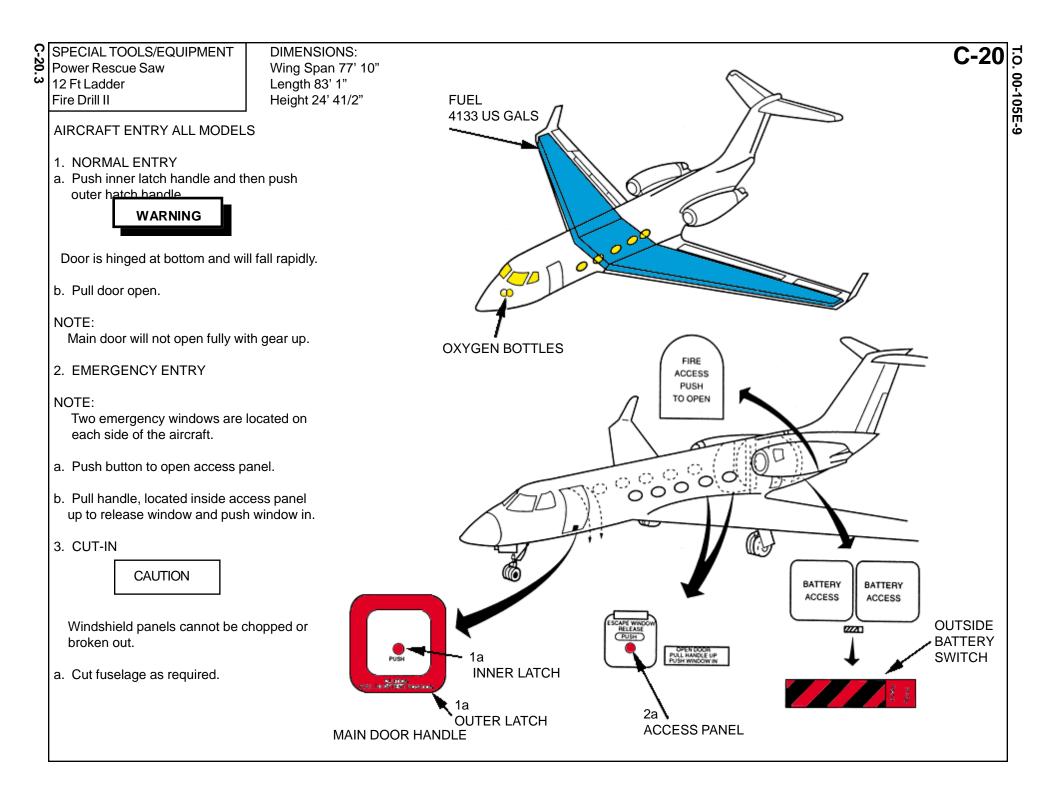
NOTE:

Aircraft is static at sea level with no wind for the following details at idle and maximum thrust of Rolls-Royce installed engines on A and B models (Gulfstream III).

- a. Inlet Suction 20 feet
- b. Turbine Blade Failure 300 feet
- c. Engine Exhaust 250 feet
- d. APU Exhaust 5 feet
- e. Radiation FWD 270 degree Arc 15 feet



C-20 T.O. 00-105E-9



SolutionSolutionNote: Note: Note:

1. ENGINE SHUTDOWN

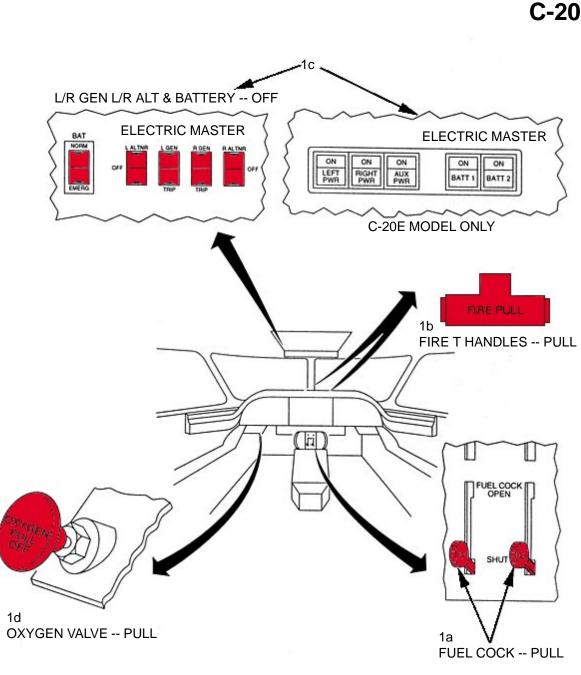
CAUTION

Battery switch must be in the ON position to operate the fire emergency control handles.

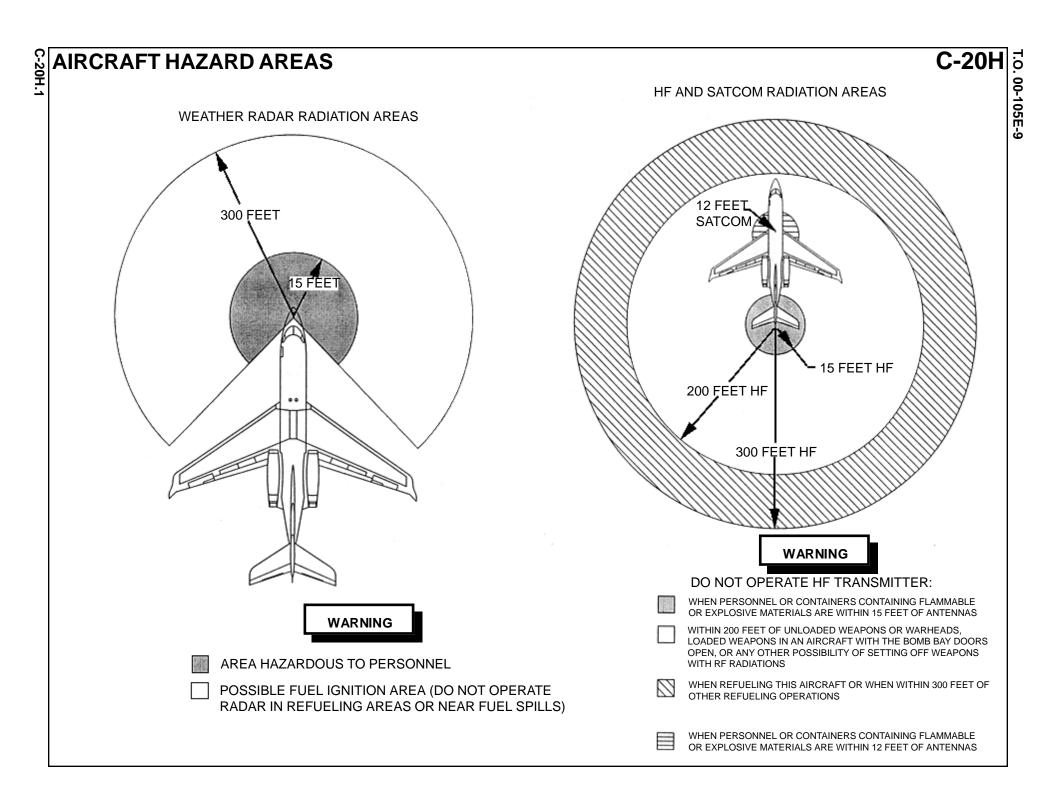
- a. Pull Fuel Cock, located on the center control pedestal, to the shut position.
- b. Pull Fire T-Handles, located top center of instrument panel.
- c. Place L/R generator, L/R alternator and Battery switches, located on overhead console to the middle OFF position on rocker switches.
- d. Pull oxygen valve, located lower left of instrument panel to cut off oxygen.
- 2. AIRCREW EXTRACTION
- a. Unlatch lap belts and remove shoulder harness from crewmember(s).

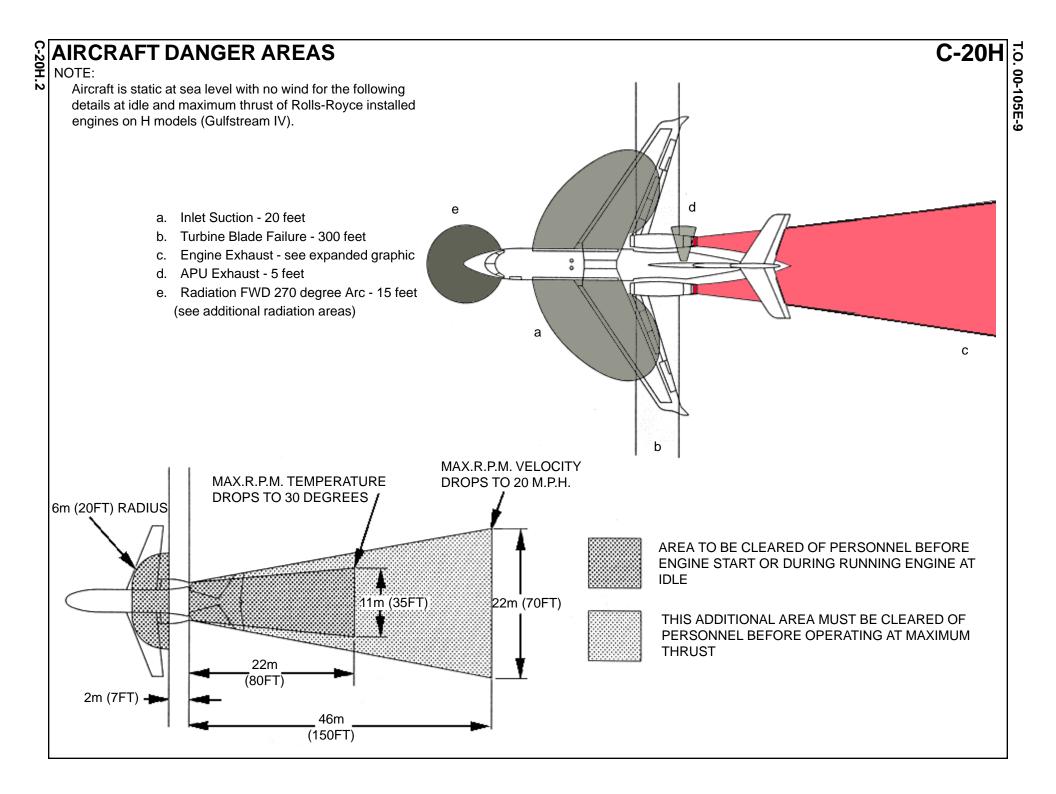
NOTE:

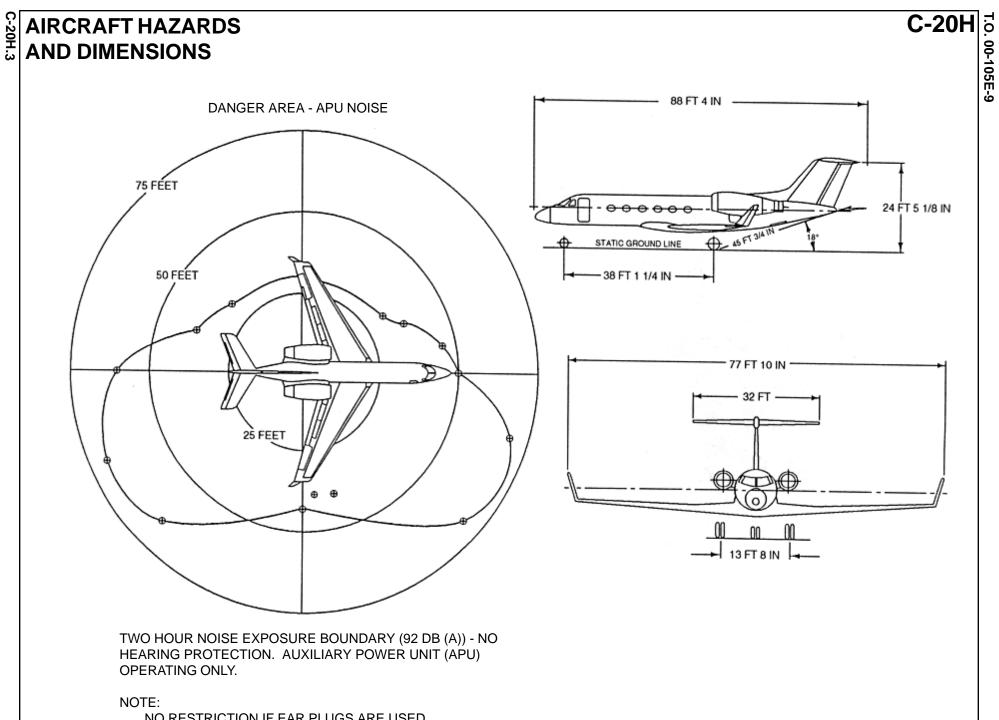
Passenger seats are equipped with lap belts only.



F.O. 00-105E-9

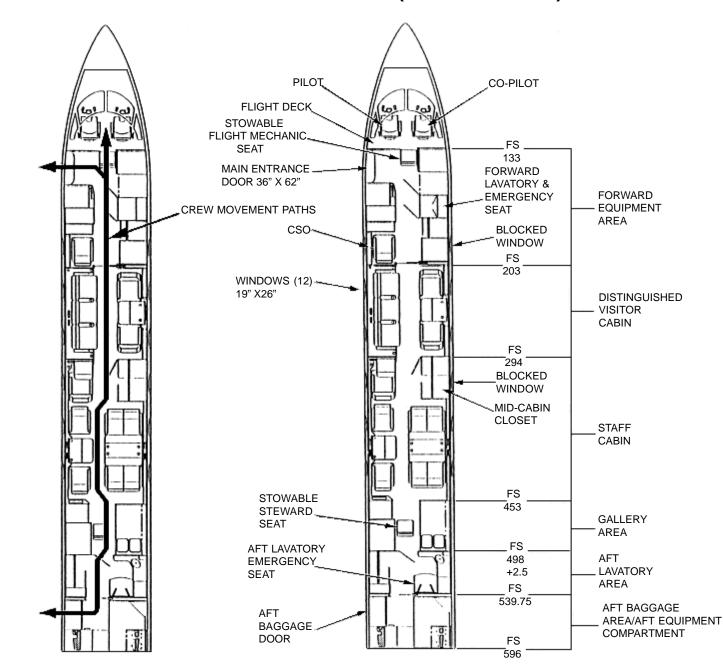






NO RESTRICTION IF EAR PLUGS ARE USED.

AIRCRAFT CABIN ARRANGEMENT/CREW MOVEMENT (AF S/N 90-0300)



C-20H T.O. 00-105E-9

