

**TECHNICAL ORDER 00-105E-9 TECHNICAL CONTENT MANAGER** 

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

### **SEGMENT 29 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 Retaining out of date rescue information can negatively affect the user's operability and outcome of emergencies.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.

CHAPTER AIRCRAFT PAGE EXPLANATION OF CHANGE

None.

#### NOTE

### Chapter 30 contains emergency rescue and mishap response information for the following NATO aircraft:

ПА	A 109
ITA, TUR	AB 204
ITA, TUR	AB 204A/S
ITA, TUR	AB 206
TUR	AB 212
ITA,TUR,ESP	AB 212A/S
CAN	AB412/CH-146
USA, TUR	AH-1 P/W
-	-
USA, GBR	AH-64
TUR	AS-532
DNK	AS-550C2
GEU	BO-105CB
CAN, ITA, USA, GBR	CH-47/HC2/3
GEU, USA	CH-53/H-53D,E
FRA	ECUREUIL ALSTAR AS 355
FRA	ECUREUIL 2*
FRA	FENNEC AS 555AN
GBR	GAZELLE AH1
GBR	GAZELLE HT2
GBR	_
-	GAZELLE HT3
ПА	HH-3F*
USA, TUR	H/M/S/UH-60A,G,H,J,L S-70-28D
USA, TUR	HUGHES 300/MH-6
DNK, USA	HUGHES 500/OH-6
GBR	LYNX HAS 3
PRT	LYNX LBH MK9
GBR	LYNX MK3
GBR	LYNX MK7
GBR	LYNX MK8
DNK	LYNX MK90B
GBR	LYNX MK95
FRA	LYNX WG 13
GBR	MERLIN
TUR	OH-13S
USA, TUR	OH-58A/C/D
GBR,FRA,ESP,PRT,TUR	PUMA HC1/SA 330
BEL	SA 313/318
BEL, FRA, PRT, NLD	SA 316B/319B/SE 3160
FRA	SA 341/342
GBR	SEA KING AEW 2
GBR	SEA KING ASW 5
GBR, ITA, ESP	SEA KING HAR 3/SH 3D
GBR	SEA KING HAS/ASW/6
GBR	SEA KING MK4
GBR	SEA KING MK6
GBR	SEA KING MK7
GEU,GBR,DNK,BEL,NOR	SEA KING MK-41/HC-4/S-61/WESTLAND SAR
GEU, DNK	SEA LYNX MK-88
USA, ESP	SH-60B
FRA	SUPER FRELON SA 321
FRA FRA, ESP, NLD	SUPER FRELON SA 321 SUPER PUMA & COUGAR/HD-21
USA, ITA, GRE, NLD	UH-1
USA, TUR, NOR	UH-1N
GBR	WESSEX HC2/HC5C

\* Aircraft information pending Chapter 30 Cover

#### **CHAPTER 30**

#### NATO

#### HELICOPTER

#### AEROSPACE EMERGENCY RESCUE AND MISHAP RESPONSE INFORMATION

#### **30-1. INTRODUCTION AND USE.**

30-2. This section contains emergency rescue and mishap response information illustrations in alphanumerical order relative to type and model of aircraft. This arrangement of illustrations is maintained from Chapter 4 throughout the remainder of the publication.

#### 30-3. GENERAL ARRANGEMENT.

30-4. Aircraft type designation has been positioned in the upper right corner of the horizontal illustration for rapid identification. Additional aids to rapid orientation are:

a. Recent technological advances in aviation have caused concern for the modern firefighter. Aircraft hazards, cabin configurations, airframe materials, and any other information that would be helpful in fighting fires, the locating and rescue of personnel will be added as the information becomes available. b. Suggested special tools/equipment are listed in the upper left corner, on the Aircraft/Entry page of each listed aircraft.

c. Procedural steps covering emergency/ normal entrances, cut-ins, engine/APU shutdown, safetying ejection/escape systems, and aircrew extraction are outlined on the left side of each page with coordinated illustrations on the right.

d. Illustrations located on right side of pages are coordinated with text by numerals and small letters depicting both paragraph and subparagraph on the page.

e. Each illustration is consistently colored and/or pattern keyed to highlight essential emergency rescue information.

f. Details are pulled directly from the illustration to highlight an area, thus eliminating unnecessary searching for desired information.

#### A 109.1 **AIRCRAFT HAZARDS**

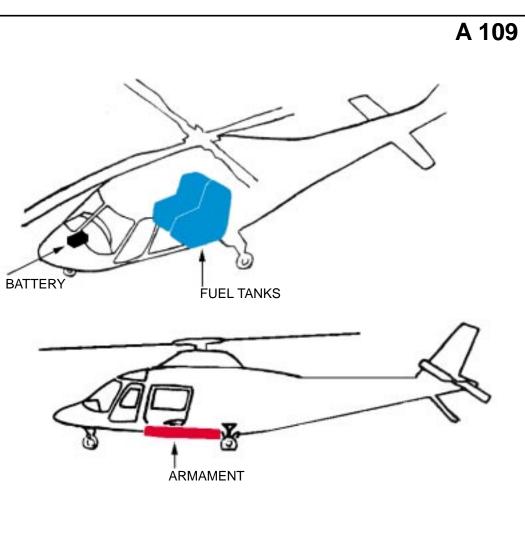
#### OTHER HAZARDS:

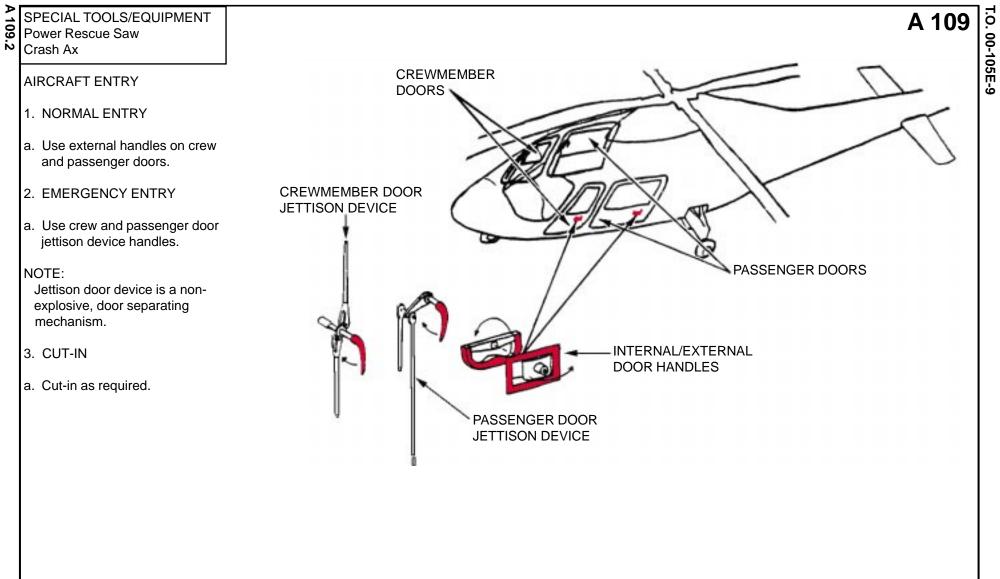
Battery acid

Bromochlorodifluoromethane (BCF Fire Extinguishant) Bromotrifluoromethane (BTM Fire Extinguishant) Cadium (Battery/Bolt protection/Steel protection Cartridge operated equipment Composite Materials (Man-made mineral fibres) Fluorolastomers (Burnt seals) Freon Polytetrafluoroethylene Fuel: NATO F-34 Hydraulic oil: H-515 Engine oil: NATO 0-156 Oxygen: Gaseous

#### NOTE:

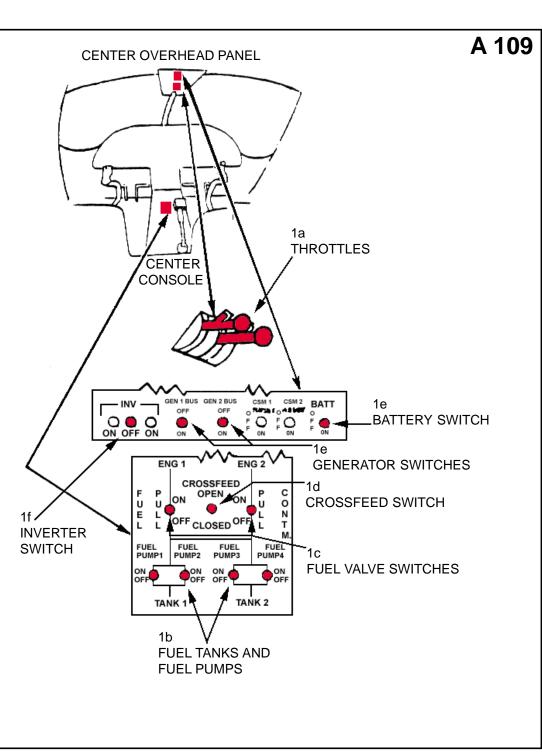
Cargo cabin insulation blanket produces phosgene gas on burning.





## ENGINE SHUTDOWN AND

- 1. ENGINE SHUTDOWN
- a. Place throttles, located on center overhead panel, to OFF position.
- b. Place fuel tanks and fuel pump switches, located on center overhead panel, to OFF position.
- Place fuel valve switches, located on center console, to OFF position.
- d. Place fuel crossfeed switches, located on center console, to CLOSED position.
- e. Place battery and generator switches, located on center overhead panel, to OFF position.
- f. Place inverter switch, located on center overhead panel, to OFF position.
- 2. AIRCREW EXTRACTION
- a. Unlatch lap belts and remove shoulder harnesses from crewmembers.
- b. Unlatch lap belts from passengers.



### SPECIAL TOOLS/EQUIPMENT

## A B 204.1

#### AIRCRAFT ENTRY

#### 1. NORMAL ENTRY

a. Rotate locking handle, located on entry doors, clockwise to OPEN position.

#### 2. EMERGENCY ENTRY

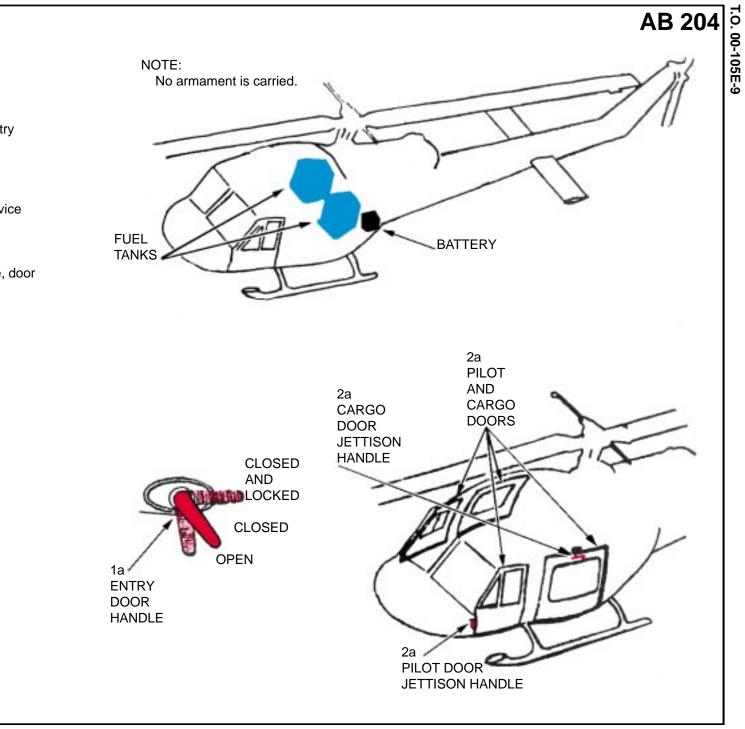
 a. Use crew and cargo door jettison device handles.

#### NOTE:

Jettison door device is a nonexplosive, door separating mechanism.

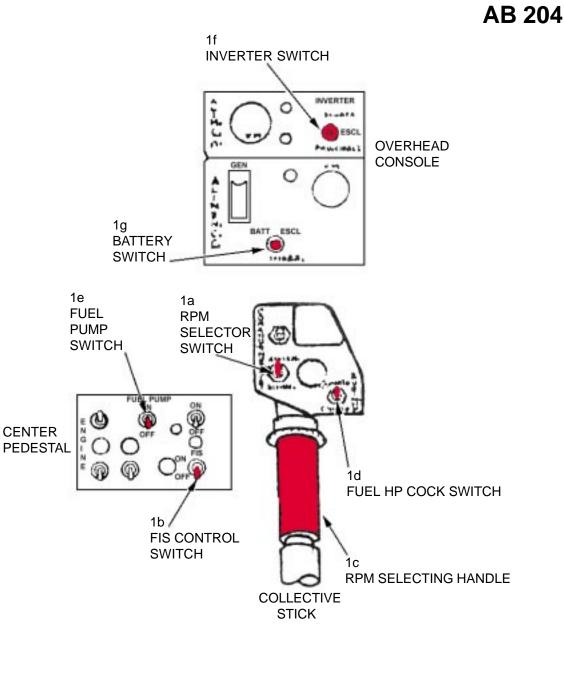
#### 3. CUT-IN

a. None.



## AIRCREW EXTRACTION

- 1. ENGINE SHUTDOWN
- a. Decrease engine RPM by operating RPM selector switch, located on pilot's collective stick on left side of main console, until green light computer actuator is on.
- b. Place FIS control switch, located on center pedestal, to OFF position.
- c. Place RPM selecting handle, located on pilot's collective stick, to CLOSED position.
- Place fuel HP cock switch, located on pilot's collective stick, to OFF position.
- e. Place fuel pump switch, located on center pedestal, to OFF position.
- f. Place inverter switch, located on overhead console, to ESCL position.
- g. Place battery switch, located on overhead console, to ESCL position.
- 2. AIRCREW EXTRACTION
- a. Unlatch lap belts and remove shoulder harnesses from crewmembers.
- b. Unlatch lap belts from passengers.



### AB 204A/S.1 SPECIAL TOOLS/EQUIPMENT

#### AIRCRAFT ENTRY

- 1. NORMAL ENTRY
- a. Rotate locking handle, located on entry doors, clockwise to OPEN position.
- 2. EMERGENCY ENTRY
- a. Use crew and cargo door jettison device handles.

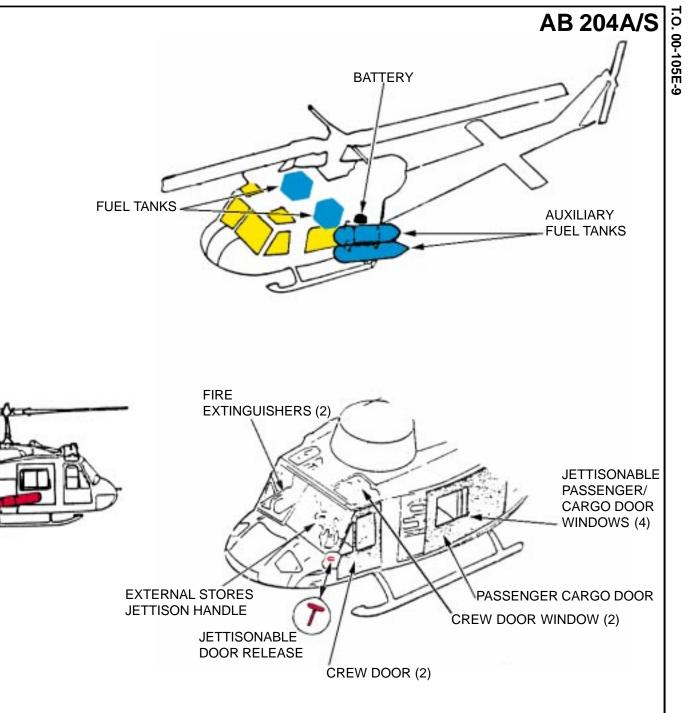
#### NOTE:

Jettison door device is a nonexplosive, door separating mechanism.

ARMAMENT

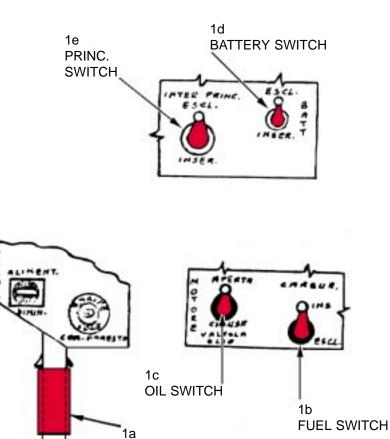
#### 3. CUT-IN

#### a. None.



#### AB 204A/S.2 **ENGINE SHUTDOWN AND AIRCREW EXTRACTION**

- 1. ENGINE SHUTDOWN
- a. Place throttle, located in the completely CLOSED position.
- b. Place the fuel shutoff switch in the OFF position.
- c. Place the oil switch in the OFF position.
- d. Place the battery switch in the OFF position.
- e. Place the princ. switch in the OFF position.
- 2. AIRCREW EXTRACTION
- a. Unlatch lap belts and remove shoulder harnesses from crewmembers.
- b. Unlatch lap belts from passengers.



THROTTLE

# AB 204A/S

## SPECIAL TOOLS/EQUIPMENT

#### AIRCRAFT ENTRY

#### 1. NORMAL ENTRY

a. Rotate locking handle, located on entry doors, clockwise to OPEN position.

#### 2. EMERGENCY ENTRY

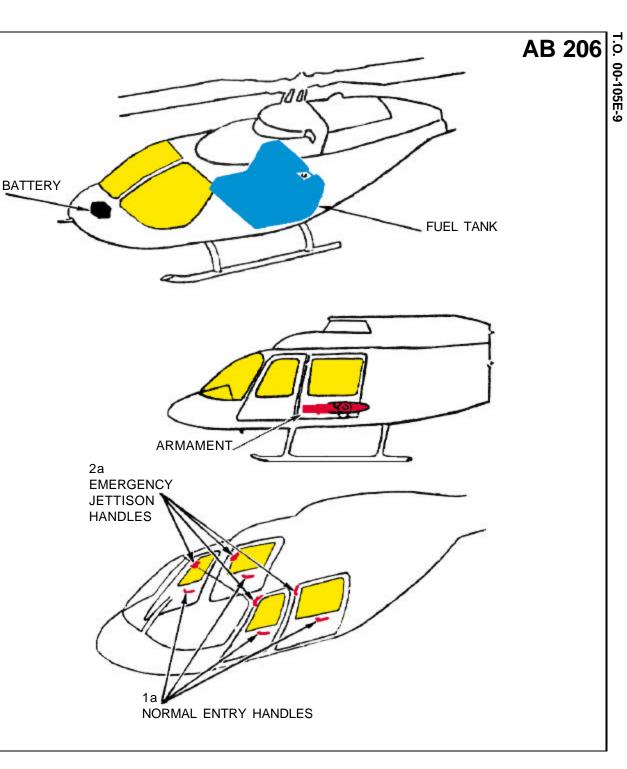
a. Use crew and cargo door emergency jettison handles.

#### NOTE:

Jettison door devices are a nonexplosive, door separating mechanism.

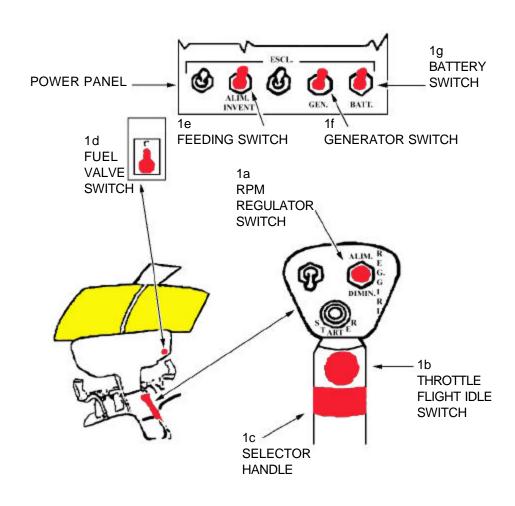
#### 3. CUT-IN

a. None.



## AIRCREW EXTRACTION

- 1. ENGINE SHUTDOWN
- Decrease (Dimin.) the RPM regulator (REG. GIRI) switch, located on the throttle control stick, to the IDLE position.
- b. Rotate the throttle against the flight idle (fermo di minimo) position.
- Push flight idle (fermo di minimo) switch and close selector handle, located on throttle control stick.
- Place the fuel valve switch, located on the forward overhead panel, to the OFF (escl.) position.
- e. Place the feeding (alim. invent.) switch, located on the power panel, up to the CUT OUT (escl.) position.
- Place the generator switch, located on the power panel, up to the CUT OUT (escl.) position.
- g. Place the battery switch, located on the power panel, up to the CUT OUT (escl.) position.
- 2. AIRCREW EXTRACTION
- a. Unlatch lap belts and remove shoulder harnesses from crewmembers.
- b. Unlatch lap belts for passengers.



## B SPECIAL TOOLS/EQUIPMENT None

#### AIRCRAFT ENTRY

#### 1. NORMAL ENTRY

a. Rotate locking handle, located on entry doors, clockwise to OPEN position.

#### 2. EMERGENCY ENTRY

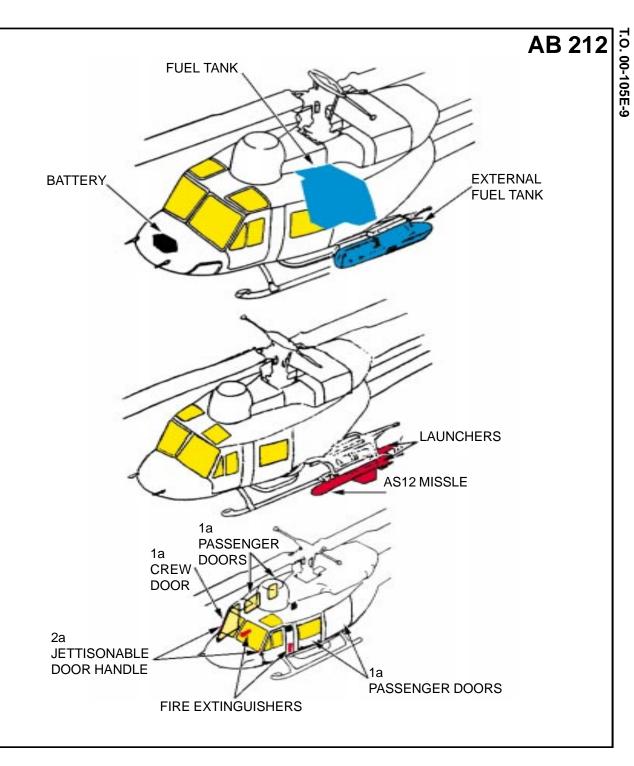
a. Use crew door emergency jettison handles.

#### NOTE:

Jettison door devices are a nonexplosive, door separating mechanism.

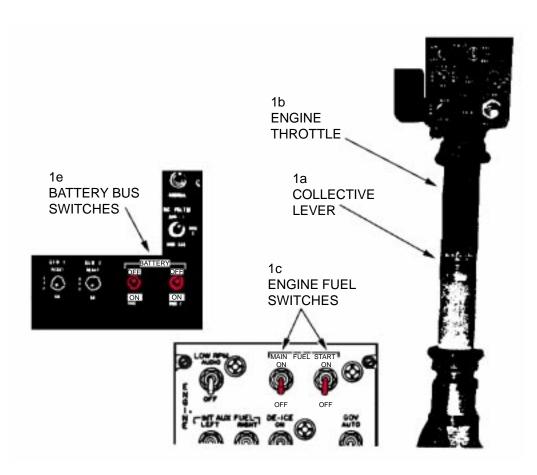
#### 3. CUT-IN

a. None.



### AIRCREW EXTRACTION

- 1. ENGINE SHUTDOWN
- a. Place the collective lever, located on the throttle control stick, to the FULL DOWN and LOCKED position.
- Place both engine throttles, located on the control stick, to the completely CLOSED position.
- c. Place both engine fuel switches, located on the engine panel, to the OFF position.
- d. Place both engine boost pump switches to the OFF position.
- e. Place the battery bus switch, located on the power panel, to the OFFposition.
- 2. AIRCREW EXTRACTION
- a. Unlatch lap belts and remove shoulder harnesses from crewmembers.
- b. Unlatch lap belts for passengers.

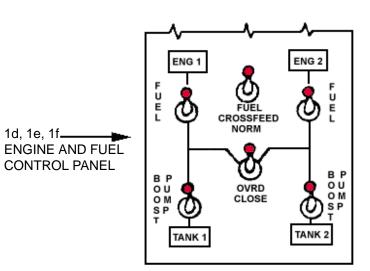


#### A RCRAFT ENTRY AB 212A/S 1. NORMAL ENTRY a. Rotate locking handle, located on entry doors, clockwise to OPEN position. 2. EMERGENCY ENTRY a. Use crew and passenger/cargo door AUXILIARY FUEL TANK emergency jettison handles. NOTE: BATTERY Jettison door devices are a nonexplosive, FUEL TANKS door separating mechanism. 3. CUT-IN a. None. ARMAMENT (MISSLES/TORPEDOES) **FIRE EXTINGUISHERS (2) JETTISONABLE PASSENGER &** CARGO DOOR WINDOWS (4) EXTERNAL STORES **JETTISON** 2a HANDLE **PASSENGER &** CARGO DOOR 2a **JETTISONABLE** 1a CREW DOOR DOOR RELEASE

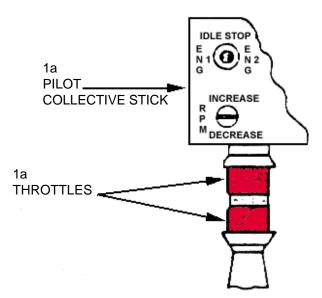
FOR CREW DOOR (2)

#### **ENGINE SHUTDOWN AND** AB 212A/S.2 **AIRCREW EXTRACTION**

- 1. ENGINE SHUTDOWN
- a. Place the throttle, located on the pilot collective stick, to the completely CLOSED position.
- b. Place the fire extinguisher selector switch to MAIN.
- c. Pull fire T-handle.
- d. Place fuel crossfeed switch, located on the engine and fuel control panel, to OVERIDE CLOSE position.
- e. Place the fuel switches, located on the engine and fuel control panel, to the OFF position.
- f. Place boost pump switches, located on the engine and fuel control panel, to the OFF position.
- 2. AIRCREW EXTRACTION
- a. Unlatch lap belts and remove shoulder harnesses from crewmembers.
- b. Unlatch lap belts for passengers.



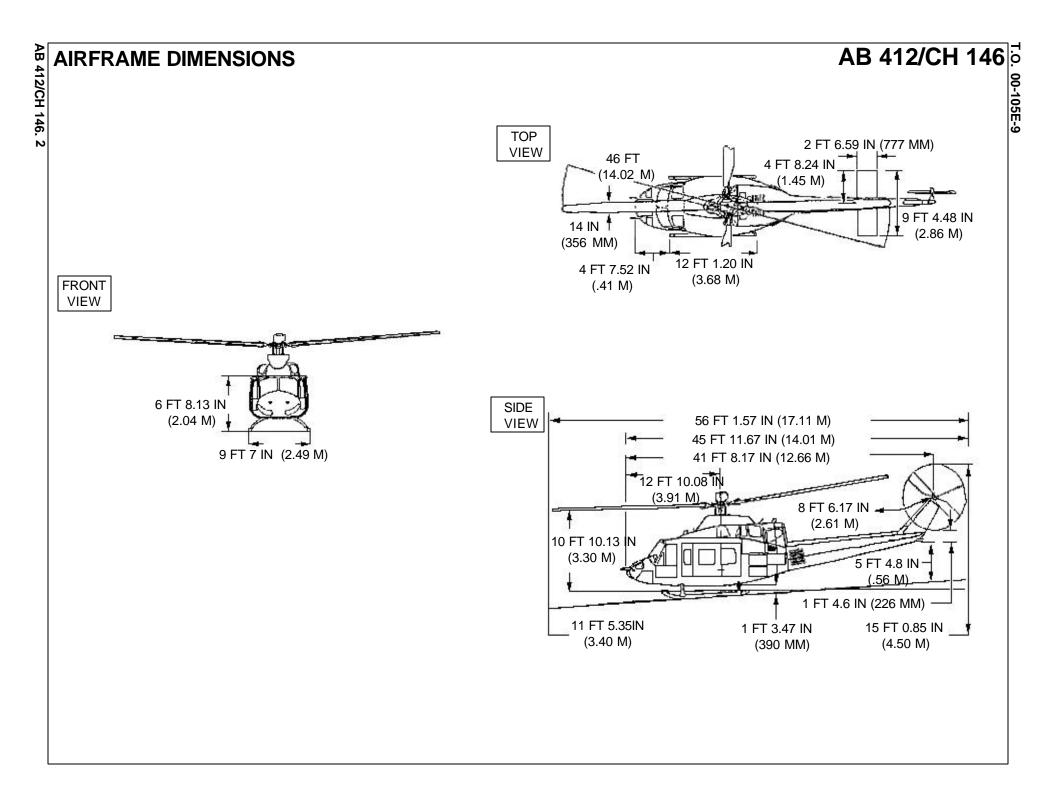
1d, 1e, 1f\_\_\_\_



### AB 212A/S

### **AIRCRAFT PAINT SCHEME**





#### ₿ AIRCRAFT GENERAL INFORMATION

The Agusta Bell (AB) 412/CH 146 "Griffon" helicopter is a twin engine with a single four-blade main rotor system and a tail rotor to provide direction control. (CH = Canadian designation)

412/CH 146.3 Crew: Three, two forward and one aft.

Maximum passenger load: 15, depending on aircraft configuration.

Fuel is carried in 10 interconnected fuel cells and one auxiliary tank. All fuel tanks are crash proof and have one way valves to prevent fuel spills in the event of a crash. The fuel tanks are located below cabin floor and four are located aft of the cabin and above level of underfloor cells. Capacity is 330 US gallons (1500 L) with auxiliary combined.

The Flight Data Recorder (Black Box) is located in the nose compartment left of the aircraft battery. (FDR is officially painted orange.)

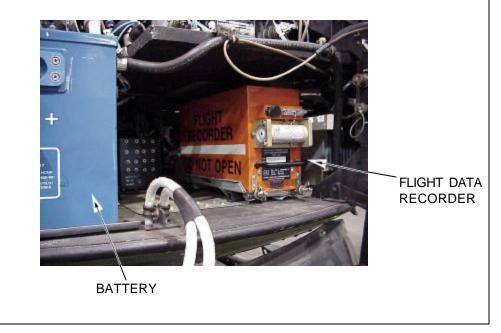


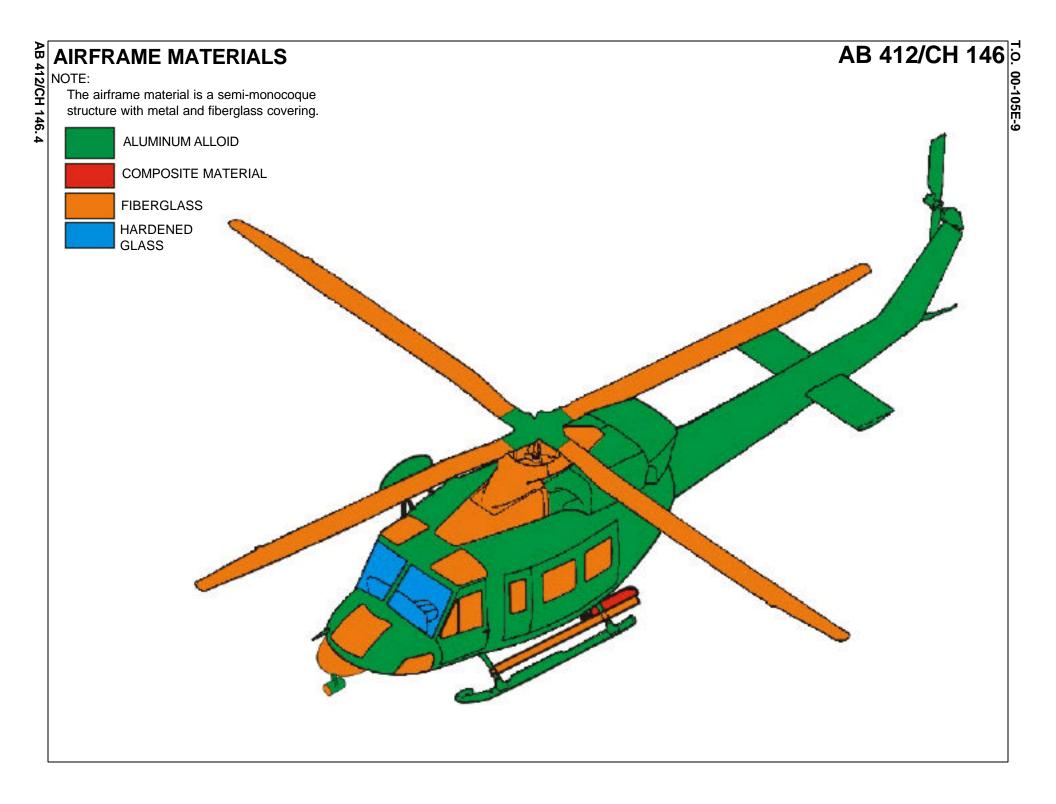
RIGHT SIDE FUSELAGE VIEW WITH NOSE COMPARTMENT OPEN

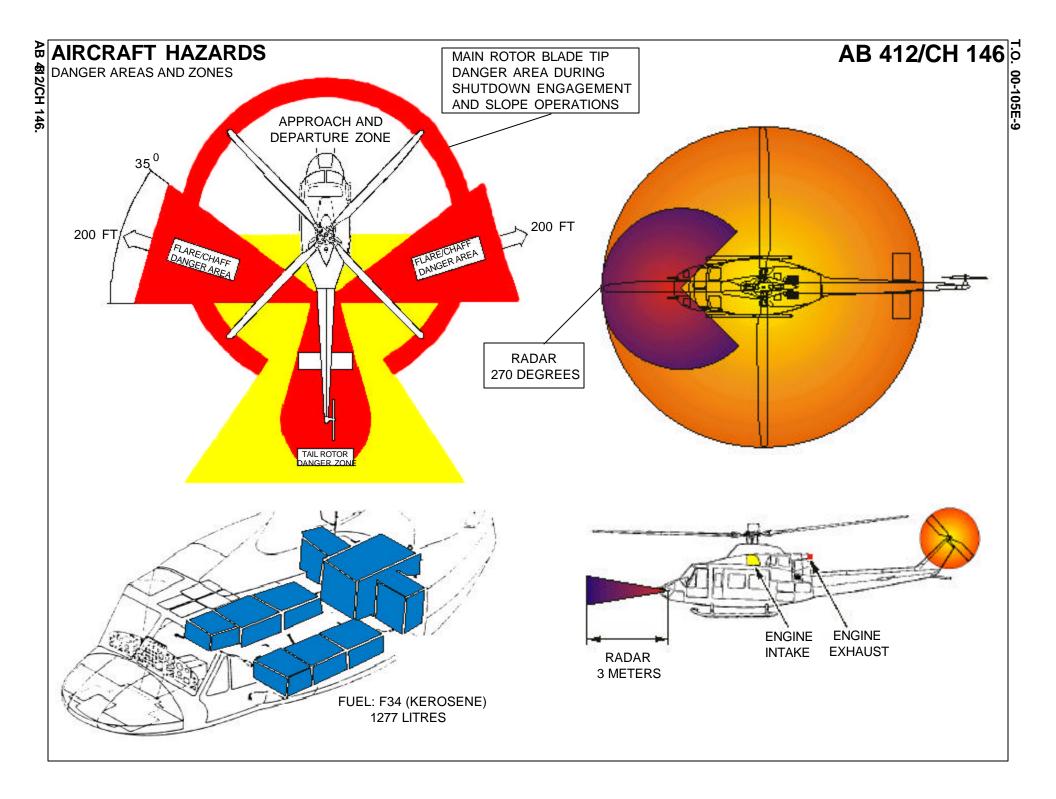


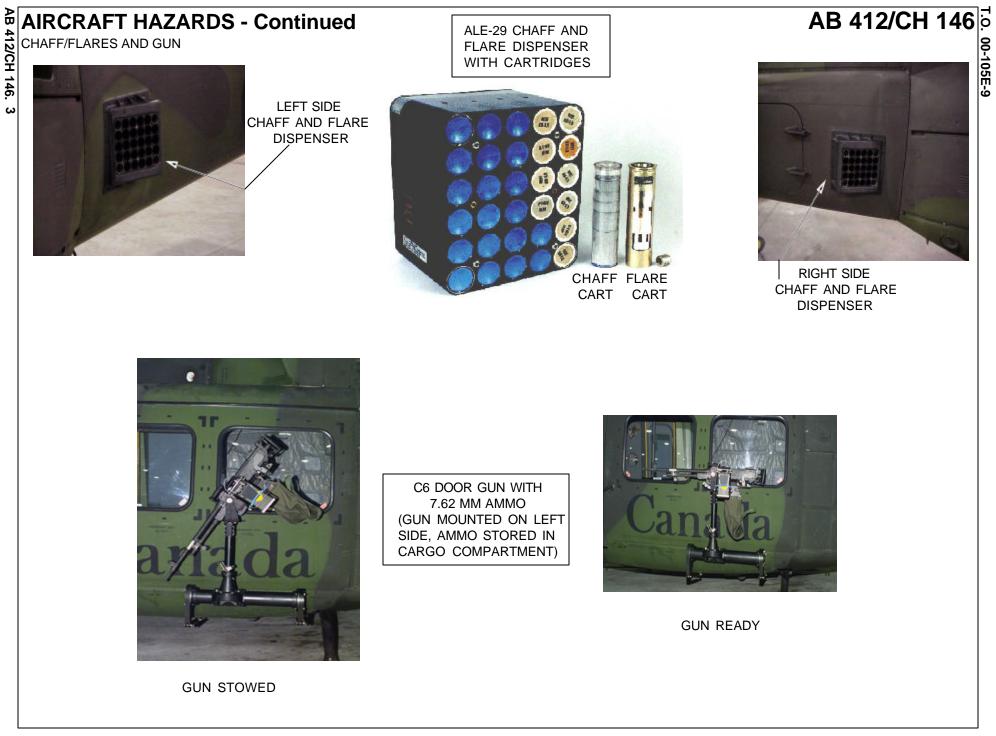
AFT CABIN AREA FUEL TANKS

**BELOW CABIN FLOOR** FUEL TANKS









### AB 412/CH 146.7 **AIRCRAFT HAZARDS-Continued**

1. EXTERNAL AIRCRAFT BATTERY DISCONNECT

#### NOTE:

- Aircraft uses a Nicad battery. Handle carefully.
- a. The battery is located in the nose compartment inside a blue box. Use a phillips screwdriver to open the panel.
- b. In case of an emergency: to disconnect the battery, turn the olive green knob counterclockwise.
- c. Pull the knob out from the battery connection to disconnect.

1a BATTERY



1b, 1c BATTERY KNOB

1a OPEN NOSE COMPARTMENT





1c DISCONNECTED BATTERY

## ABSPECIAL TOOLS/EQUIPMENT41Crash AxV-KnifePower KawckForce Rescue ToolPhillipsScrewdriver

146.8

AIRCRAFT ENTRY

NOTE:

Orientation: pilot - right side, co-pilot - left side.

#### WARNING

Responding vehicles must not approach within 50 feet of aircraft until the rotors are stopped. Always approach aircraft from the front at the pilot's 10 O'clock or 2 O'clock position. Stay out of danger areas to prevent injury or death. (See page AB 412/CH 146.5.)

#### NOTE:

Whether the rotors are rotating or not, insure pilot can see you at all times while approaching the aircraft.

- 1. NORMAL ENTRY
- a. Open pilot's or co-pilot's doors by rotating external door handle, located at the door's aft edge.
- b. Open cabin area, from right side of fuselage, by rotating external cabin door handle down. (This door may also be considered the cargo door, depending on aircraft configuration.)

#### 2. EMERGENCY ENTRY

- a. Gain entry into cabin/cargo area by rotating external handle down, slide the door aft, or remove door by rotating the jettison handle (release up) at the forward edge of the door.
- Entry may be accomplished by removing the emergency exit windows. (See page AB 412/CH 146.9 step 1b.)
- 3. CUT-IN
- a. Cut-in windows and doors as required. (Cut-ins are enhanced in red. Actual aircraft color is subdued black.)

#### 3a <u>CUT-IN</u> INDICATIONS



1a, 1b EXTERNAL DOOR HANDLE FOR CO-PILOT (OPPOSITE FOR PILOT)



#### 3a

CUT-IN INDICATIONS FOR CABIN/CARGO AREA 2a, 2b EXTERNAL JETTISON DOOR HANDLE FOR PILOT (OPPOSITE FOR CO-PILOT)



AB 412/CH 146

### AB 412/CH 146.9 **EMERGENCY EXITS**

AB 412/CH 146

1. EMERGENCY EXITS

NOTE:

- The main emergency exits are the cargo doors, located on either side; the Pilot and Co-pilot's doors and windows can also be used for emergency exits.
- a. To open the cargo doors, turn the internal handles down and slide the doors aft.
- b. In case of jammed cargo doors, open the emergency window exits by firmly pushing out on bottom corners by applying 50 pounds of pressure. Corners are marked by red dots. (This can be done internally or externally. Illustrated view is internal)
- c. To use the emergency exits for the pilot and co-pilot, pull the yellow and black T-handle (release up) just inside the door hinges (forward edge of door).



1a INTERNAL CARGO DOOR HANDLE

1b WINDOW EXIT CORNERS

#### CARGO AREA WITH PAX SEATS REMOVED



1c CO-PILOT INTERNAL JETTISON HANDLE (OPPOSITE SIDE SAME)



### **ENGINE SHUTDOWN**

- 1. ENGINE SHUTDOWN
- a. Shutdown the engines by pulling the two FIRE PULL Thandles, located at the center of the upper instrument panel.
- b. IN CASE OF FUEL LEAK: shutdown electrical power by selecting the two battery switches, located on the center of the upper right console, to the OFF position. The switches are marked BATTERY BUS 1 and BATTERY BUS 2.
- c. IN CASE OF ENGINE FIRE: activate the fire extinguishment system by pulling the FIRE PULL T-handles and pulling the station handle (#1 or #2 designated engine) to ignite the Halon bottles. Both handles are located on the pilot's instrument panel.

#### NOTE:

Two squib-activated Halon bottles are located in the aft compartment. When the squibs are ignited, they activate the main Halon bottle and the reserve Halon bottle, which then discharges the Halon to each corresponding selected engine. (See page AB 412/CH 146.13 4a.)

- 2. OTHER ITEMS FOR ENGINE SHUTDOWN
- a. The engine fuel cut off valves are located internally on both sides of aircraft.
- b. The engine throttle is located to the left side of the left pilot seat.
- c. The rotor brake handle is located on the overhead console.

#### 1a, 1c FIRE T-HANDLES









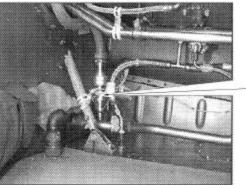
1b

AB 412/CH 146

**BATTERY SWITCHES** 

00-105E-9

2b THROTTLE



2c ROTOR BRAKE HANDLE (STOWED)



2c ROTOR BRAKE HANDLE (BRAKE ENGAGED)

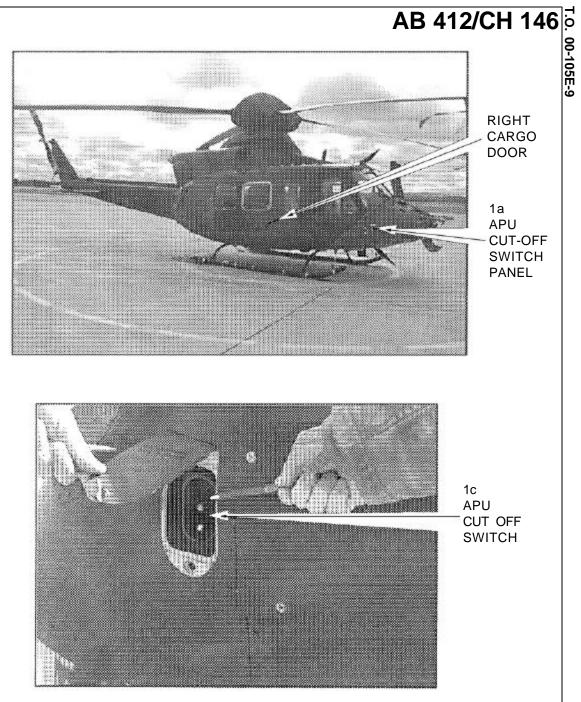


## AB 412/CH 146. 11 **APU SHUTDOWN**

1. APU SHUTDOWN

a. The APU cut-off switches are located on both sides forward of pilot and co-pilot doors.

- b. Open APU cut-off switch panel by turning panel door lock, located at bottom of panel.
- c. APU cut-off switch is located inside APU door panel. Place switch in OFF position to cut-off power to the APU.



12

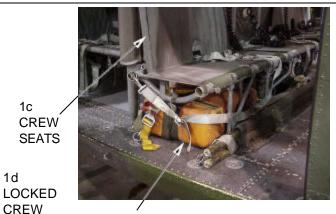
AIRCREW EXTRACTION 1. AIRCREW EXTRACTION NOTE: Pilot and co-pilot seat adjustments may properly position and make room for pil Pilot and co-pilot seat adjustments may be necessary to properly position and make room for pilot(s) extraction. A third crewmember is situated behind pilots.

- a. The pilot and co-pilot seats can be moved up and down, by using the lower right lever controls.
- b. The pilot and co-pilot seats can be moved forward and backward, by using the large lever under the seat.
- c. Third crewmember and passenger seats are stationary.

#### NOTE:

Maximum passenger load is 15, depending on aircraft configuration. Passenger seats are arranged in a row of 4 seats facing aft, another row of 5 seats facing forward, and a pair of seats facing outboard from either side of pylon support structure.

d. Disconnect lap belts and shoulder harnesses (as applicable) and place restraints to the side to prevent entanglements.



SURVIVAL KIT



1d LOCKED PAX SEAT BELT

1c

SEAT BELT

1d

1d PAX SEAT BELT LINK



1d

1d UNLOCKED CREW SEAT BELT





AB 412/CH 146

UNLOCKED CREW

# FIRE EXTINGUISHER, FIRE ACCESS AND FIRE BOTTLE LOCATIONS 1. AIRCREW AREA a. The aircrew area 5 pound Halon fire extinguisher is located on the floor, right side, next to right pilot.

- is located on the floor, right side, next to right pilot.
- 2. CABIN/CARGO AREA
- a. The cabin area 5 pound Halon fire extinguisher is located on the wall, left side, behind left pilot.
- 3. FIRE ACCESS
- a. The fire access panel for the engine is located on the upper right side of the fuselage. (Red border is used for orientation, not found on actual aircraft.)
- 4. FIRE BOTTLE
- a. The fire bottle is located aft of fuselage on each side of aircraft. There are two cartriges installed on the bottle.



2a CABIN EXTINGUISHER

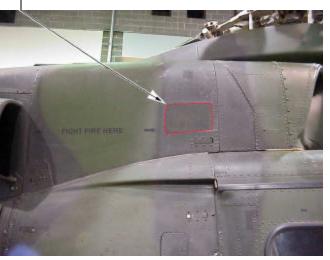


1a PILOT EXTINGUISHER

> 4a FIRE BOTTLE

4a







### **EXTERNAL ACCESSORIES**

- 1. AIRCRAFT RESCUE HOIST
- a. The aircraft hoist is located on the right side of the fuselage above the cargo door area.
- b. The hoist explosive cartridge is located on the underside of the hoist assembly.
- 2. AIRCRAFT WIRE CUTTERS
- a. The lower cutter is located under the fuselage forward of the support rails.
- b. The upper cutter is located on top of the fuselage above the windshield.
- 3. AIRCRAFT NIGHT SUN AND FLIR
- a. The night sun is located on the right support rail.
- b. The Foward Looking Infared (FLIR) is located on the left support rail.

#### 1a HOIST ASSEMBLY



#### 1b HOIST EXPLOSIVE CARTRIDGE



2b UPPER CUTTER



2a LOWER CUTTER-



3a NIGHT SUN



3b FLIR-

AB 412/CH 146.14

### AB 412/CH 146.15 **BAGGAGE COMPARTMENT**

- 1. BAGGAGE COMPARMENT
- a. The baggage compartment door is located on the aft right side of the fuselage. The door can be unlocked by rotating the door handle.
- b. Open baggage compartment door by opening door left to right at door hinges.
- c. There is a baggage compartment smoke installed in the compartment ceiling.
- d. There is a baggage compartment fire warning light on the forward instrument panel in the cockpit.

#### 1a BAGGAGE COMPARTMENT DOOR HANDLE



### AB 412/CH 146 1b BAGGAGE COMPARTMENT DOOR OPEN



#### 1c

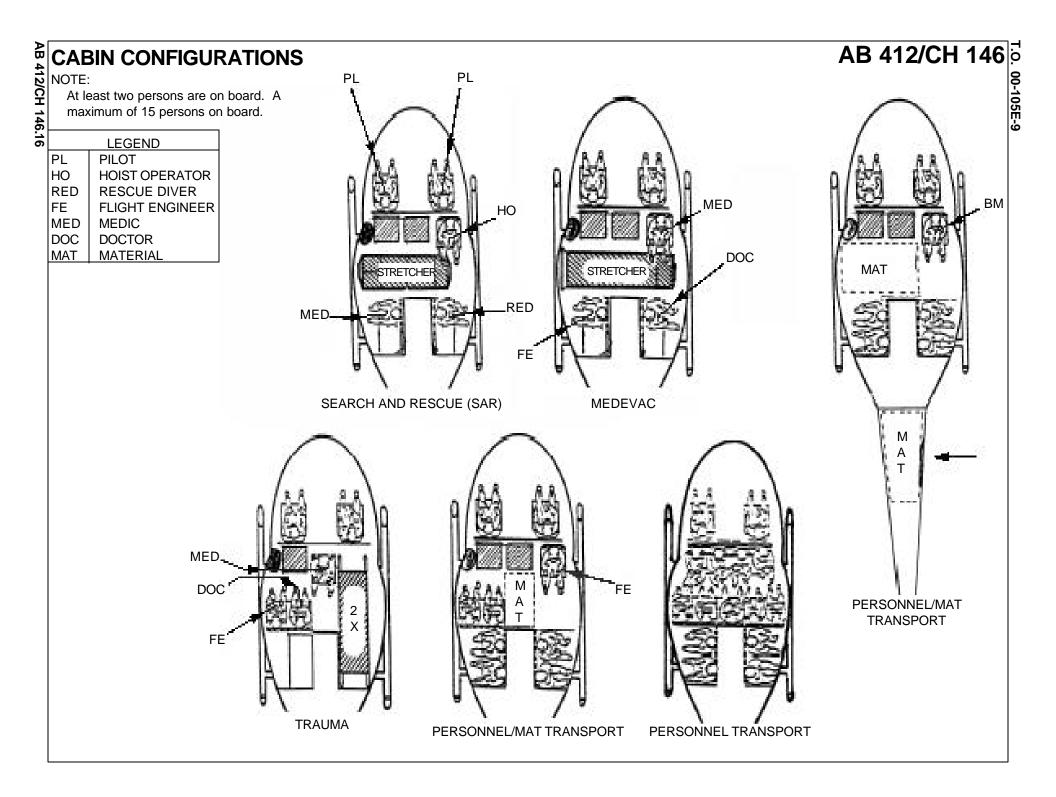
#### BAGGAGE COMPARTMENT SMOKE DETECTOR

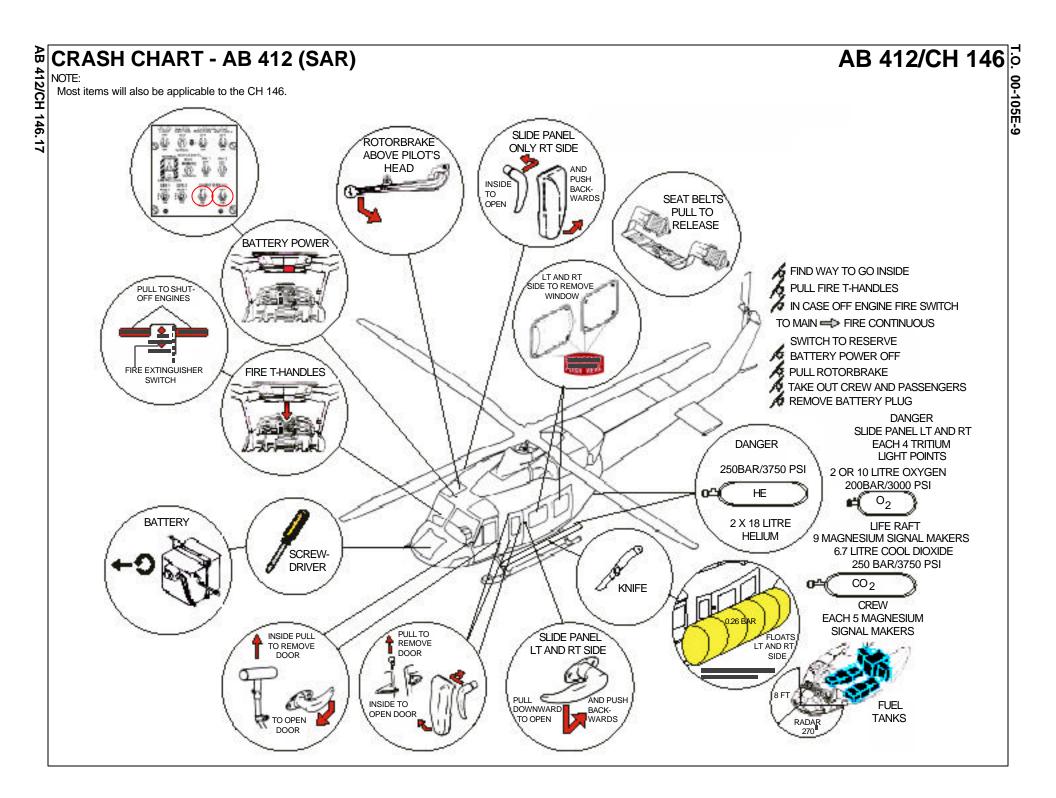


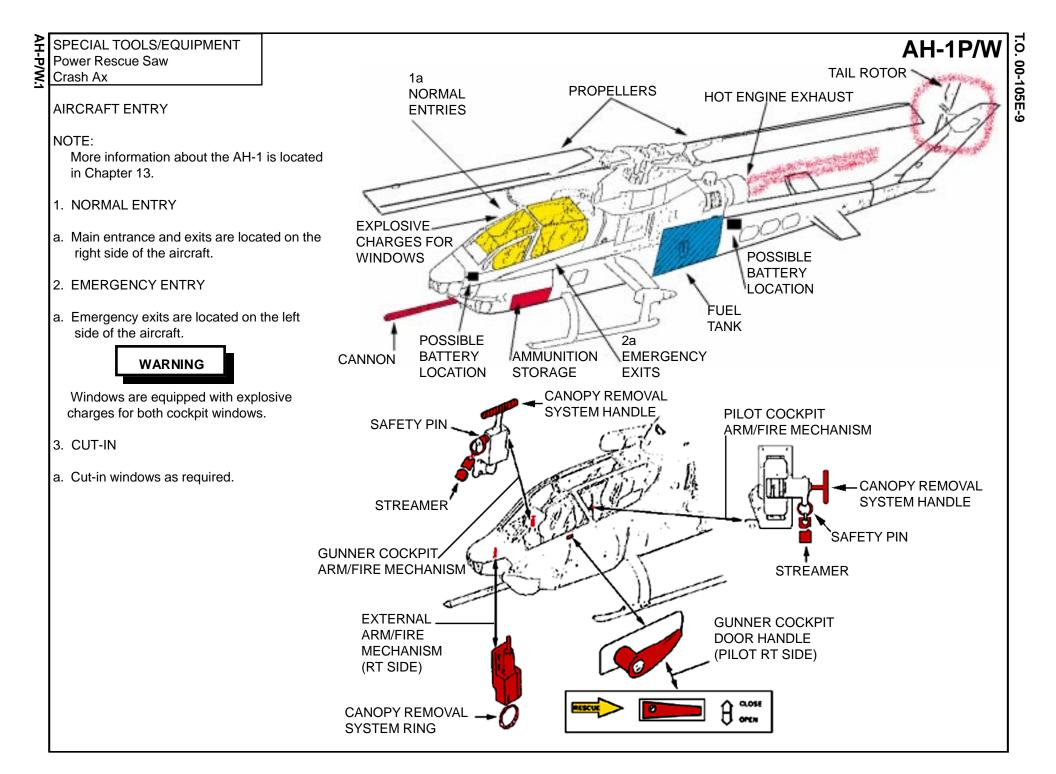
#### 1d

BAGGAGE COMPARTMENT FIRE WARNING LIGHT





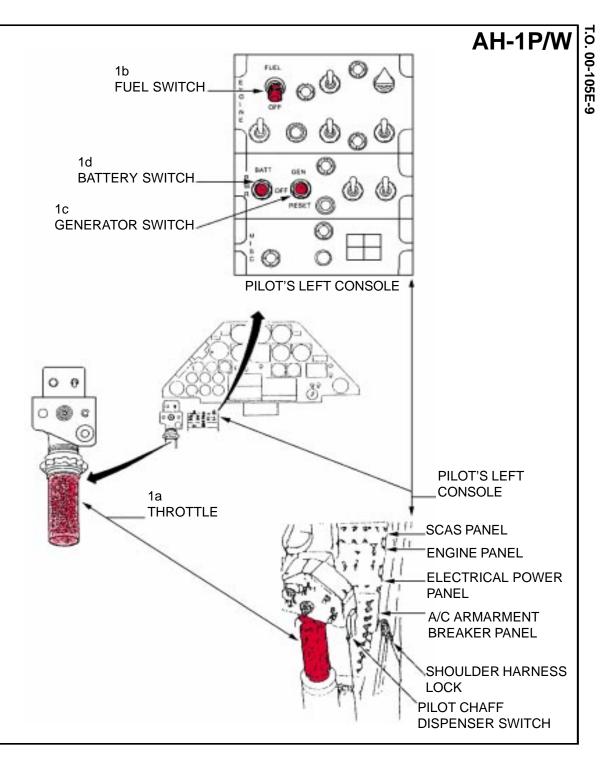




#### **ENGINE SHUTDOWN AND** AH-P/W.2 **AIRCREW EXTRACTION**

1. ENGINE SHUTDOWN

- a. For AH-1P/W, rotate throttle, located pilot's left on console, to the OFF position.
- b. For AH-1W only, engage rotor brake.
- c. For AH-1P only, place fuel switch, located on the pilot's left console, to the OFF position.
- d. For AH-1P only, place generator switch, located on pilot's left console, to the OFF position, if applicable.
- e. Place the battery switch, located on pilot's left console, to the OFFposition.
- 2. AIRCREW EXTRACTION
- a. Unlatch lap belts and remove shoulder harnesses from crewmembers.



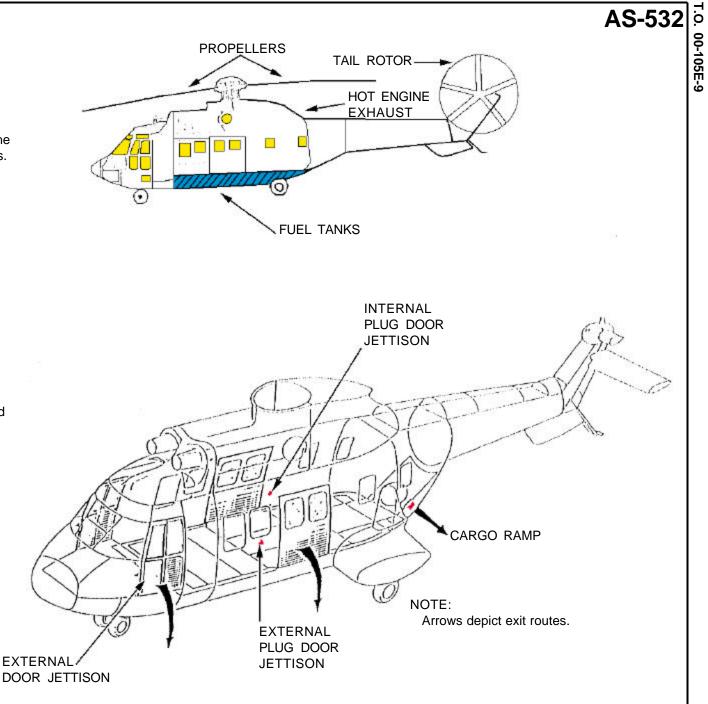
The aircraft information is located in Chapter 13 containing US Army aircraft.

#### AS-532.1 SPECIAL TOOLS/EQUIPMENT Power Rescue Saw Crash Ax

#### NOTE:

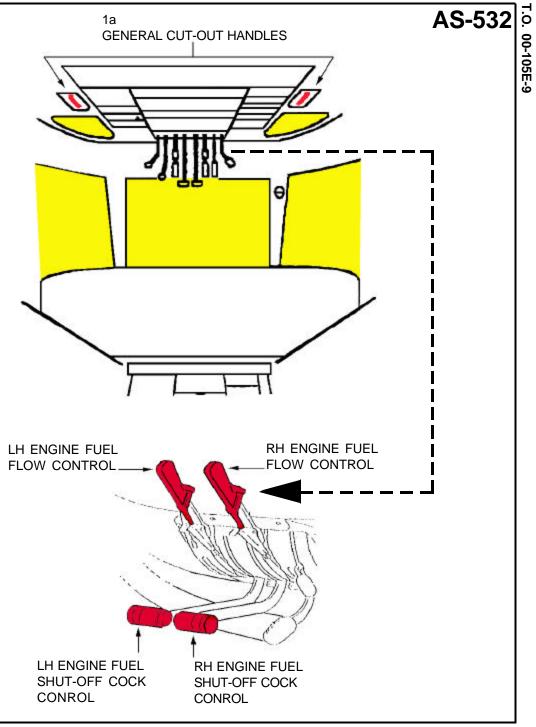
This aircraft can seat up to 12 occupants depending on the mission configuration. The civilian version can seat up to 20 occupants.

- 1. NORMAL ENTRY
- a. Main entrance and exits are located on both sides of the aircraft, including the aft cargo ramp.
- 2. EMERGENCY ENTRY
- a. Emergency exits are located on both sides of the aircraft, including the aft cargo ramp if ramp is open.
- b. Cockpit and cargo doors can be jettisoned. External jettison handles are located left of doors. Internal jettison handles are located right of doors.
- 3. CUT-IN
- a. Cut-in windows as required.



#### AS-532.2 ENGINE SHUTDOWN AND **AIRCREW EXTRACTION**

- 1. ENGINE SHUTDOWN
- a. Pull the general cut-out handles, located on the overhead control panel, to shutdown the engines.
- b. Engine controls on the overhead panel are illustrated only for location and identification. These controls are not used for emergency shutdown. They are used under normal conditions.
- 2. AIRCREW EXTRACTION
- a. Unlatch lap belts and remove shoulder harnesses from crewmembers and passengers.

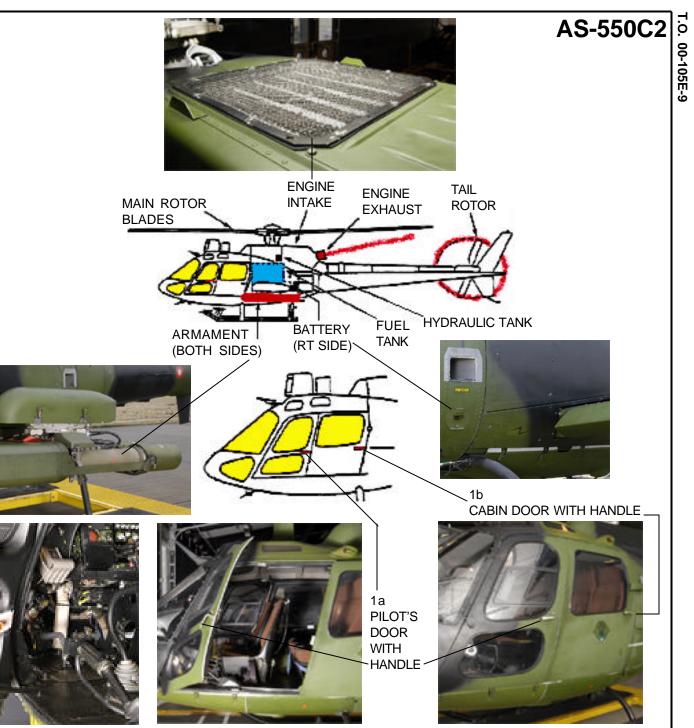




#### AS-550C2.2 SPECIAL TOOLS/EQUIPMENT Power Rescue Saw Crash Ax

#### AIRCRAFT ENTRY

- 1. NORMAL AND EMERGENCY ENTRY
- a. Open pilot's door, located on both sides of fuselage, by turning door handles downward and pulling door outward.
- b. Open cabin door, located on both sides of fuselage, by turning door handles downward to release from door housing, then push door backward.
- 2. CUT-IN
- a. Cut-in fuselage as required.



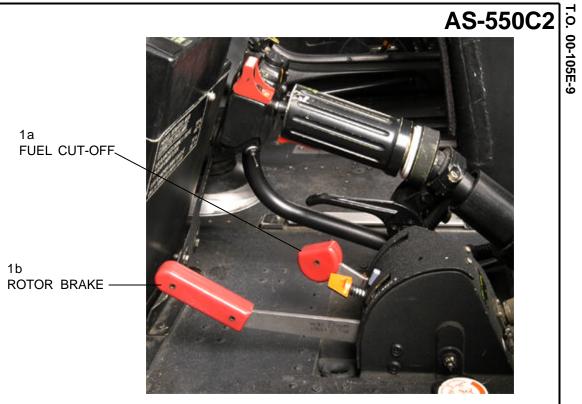
1b PILOT'S DOOR RELEASE

### **ENGINE AND ELECTRICAL S** 1. ENGINE SHUTDOWN a. Place fuel cut-off handle, located on the floor ENGINE AND ELECTRICAL SHUTDOWN

- between pilot seats, in the UP position to lock.
  - b. Place rotor brake handle, located on the floor between pilot seats, in the UP position to lock.
  - c. Press cut-off button, located inside the cockpit, to turn off battery power.
  - 2. ELECTRICAL SHUTDOWN
  - a. If the battery cut-off button can not be reached, the battery can be accessed (see page AS-550C2.2) through the access panel. The power connection can be secured and safed by installing a safety pin in the below location above the missile launch pylon.

2a POWER SAFETY PIN







1c BATTERY CUT-OFF BUTTON

### AS50C2.4 NOTE: AIRCREW EXTRACTION

#### 1. AIRCREW EXTRACTION

All seat restraints are equipped with shoulder harness and lap belt central quick release point.

- a. Unlatch restraints at quick release point.
- b. Remove lap belts and shoulder harnesses from crewmember to prevent entanglement.
- c. Remove crewmember(s) from aircraft.



#### AIRCREW EQUIPMENT

#### 1. AIRCREW EQUIPMENT

AS-550C2.5 a. The Ekstra picture targeting device is located at eye level for aircrew use.

#### NOTE:

The helmet is connected to the aircraft radio by an electrical connection.

b. The radio connection to the helmet may have to be disconnected prior to aircrew extraction or remove helmet from crewmember to avoid entanglement during extraction.



1a EKSTRA PICTURE TARGETING DEVICE







1b RADIO CONNECTION TO HELMET

#### SPECIAL TOOLS/EQUIPMENT Power Rescue Saw Crash Ax

#### AIRCRAFT ENTRY

1. NORMAL AND EMERGENCY ENTRY

#### NOTE:

Special double side doors are located both sides of fuselage. Each section can be opened separately.

- a. Press down exterior handle of cockpit door for release, turn door outwards.
- b. Press down exterior handle of cabin door for release, pull doors outwards and slide backwards.

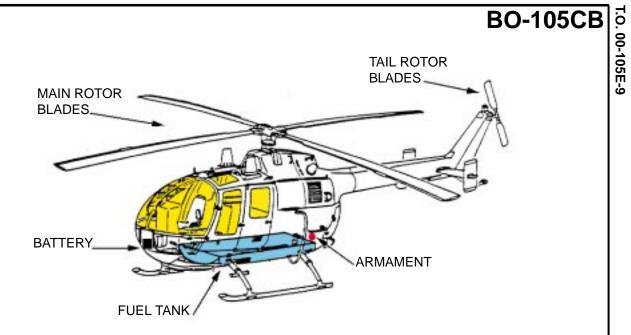
#### WARNING

Beware of rotating main rotor blades and tail rotor blades.

#### NOTE:

Both front section doors are dropable.

- 2. CUT-IN
- a. Cut-in fuselage as required.





#### **ENGINE SHUTDOWN AND** BO-105CB. 2 **AIRCREW EXTRACTION**

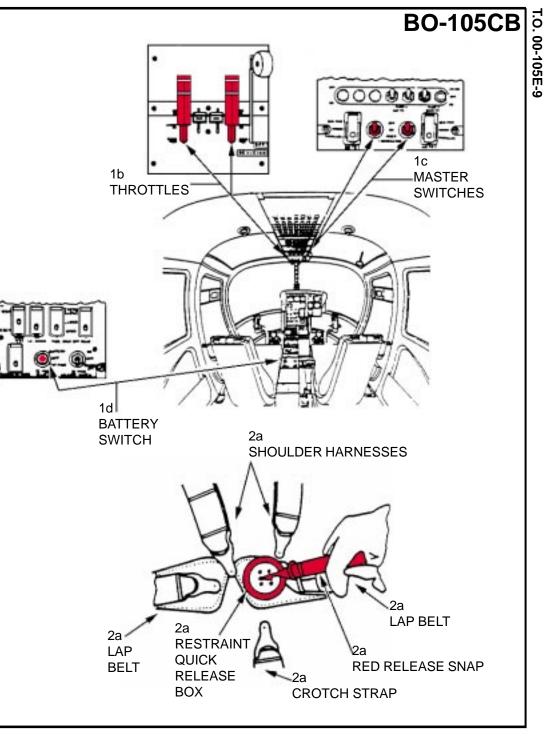
1. ENGINE SHUTDOWN

- a. Lift cover of fuel shutoff switches, located on pilot's center console, and place switches (not illustrated) in the EMERGENCY position.
- b. Press down spring loaded idle detent stop, located inside throttles on pilot's overhead panel, and move throttles to the OFF position.
- c. Lift master switches, located on pilot's center console, and move aft to the OFF position.
- d. Place battery switch, located on center console, to the OFF position.
- 2. AIRCREW EXTRACTION

#### NOTE:

Safety belts, shoulder harnesses, and crotch straps of crewmembers are equipped with a restraint quick release box.

- a. Pull red release snap from restraint quick release box until all restraint straps are released.
- b. Set all straps aside, to prevent entanglement, and remove crewmember.



## CH-47/HC2,3

The aircraft information is located in Chapter 13 containing US Army aircraft. HC2,3 aircraft information is pending.

## CH-53/H-53D,E

The aircraft information is located in Chapter 9 containing US Air Force aircraft.

### AIRCRAFT PAINT SCHEME (B/W)



3/4 VIEW RIGHT AFT

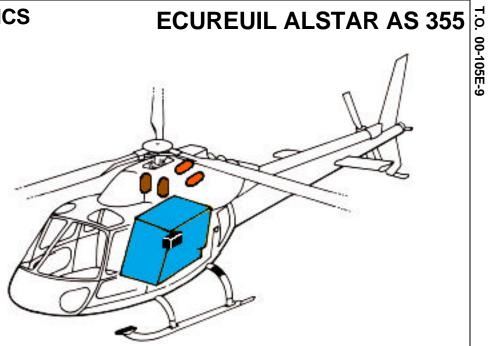
3/4 VIEW RIGHT AFT

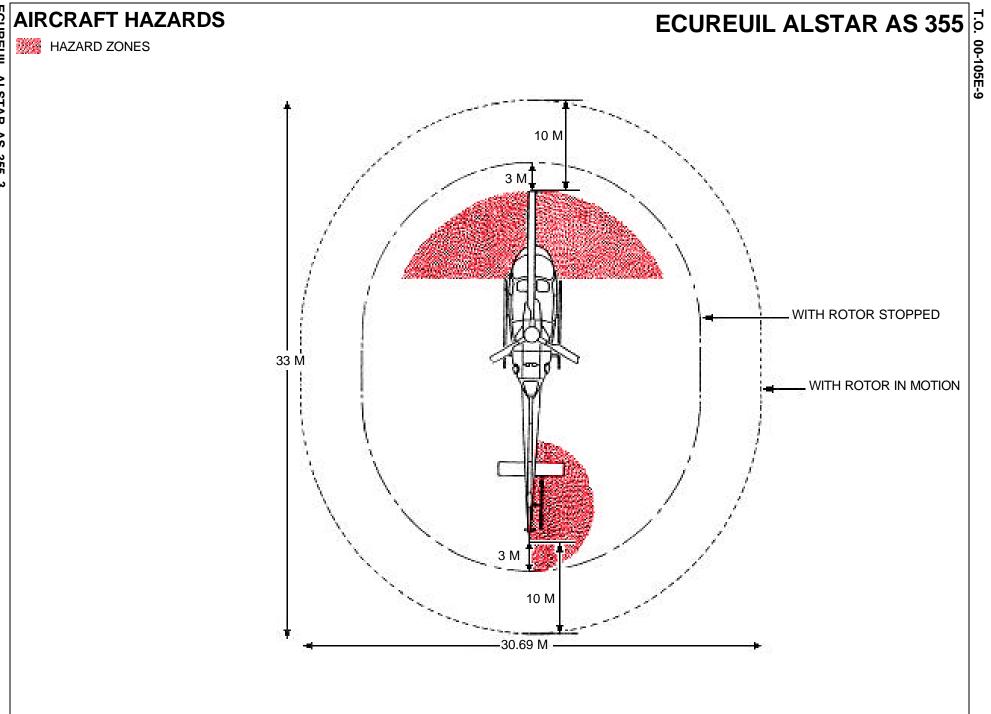
#### ECUREUIL ALSTAR AS 355.2 **AIRCRAFT GENERALITIES AND CHARACTERISTICS** FUEL OIL HYDRAULIC FLUID BATTERY MISSION: Personnel transport, rescue, base defence PILOTS: According to mission, 1 or 2 PASSENGERS: Maximum of 4 FUEL: Flashpoint >41 degrees C, 2 reservoirs front 334 L, aft 400 L

OIL: Flashpoint >246 degrees C (2x4.7 L) 9.4 L total HYDRAULIC FLUID: Flashpoint>93 degrees C (2x3 L) 6 L total main transmission 4.5L, aft transmission 0.33 L ENGINE FIRE EXTINGUISHING AGENT: Freon 13 B1 (2x0.620 kg) (Preferred fire extinguishing agent-powder) ROTOR BRAKE ASSEMBLY: Brake disc material-steel

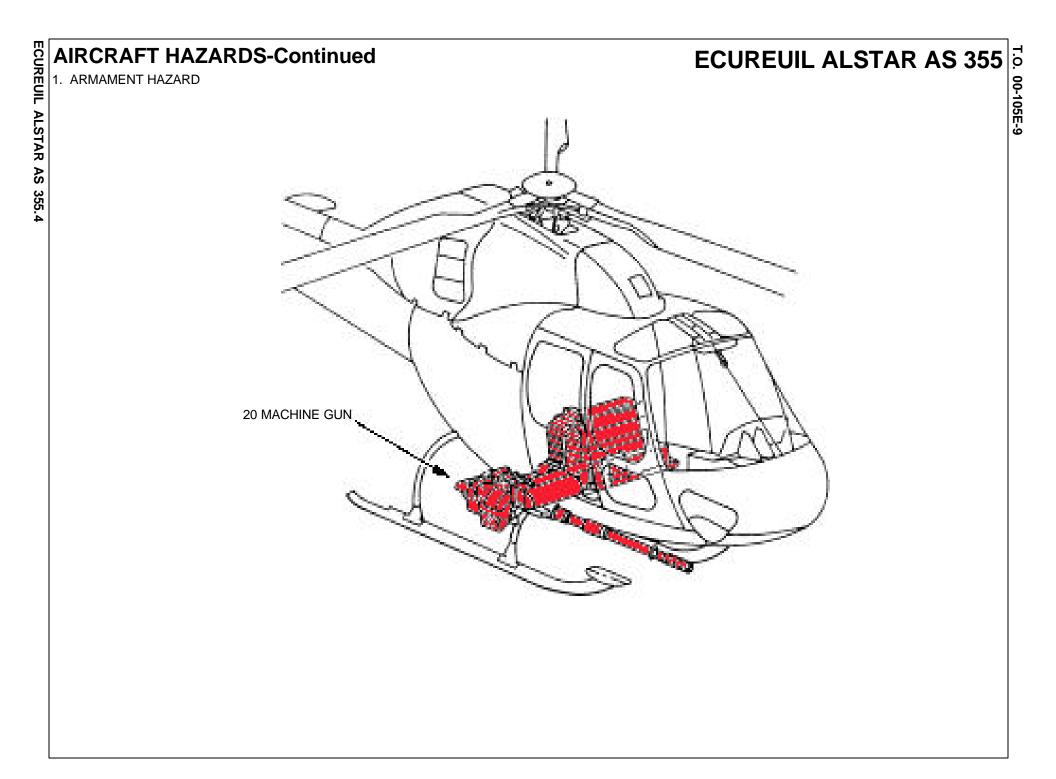
DIMENSIONS:

Length with main rotor blades 13.00 M Main rotor diameter 10.9 M Weight-empty 1690 kg maximum 2540 kg



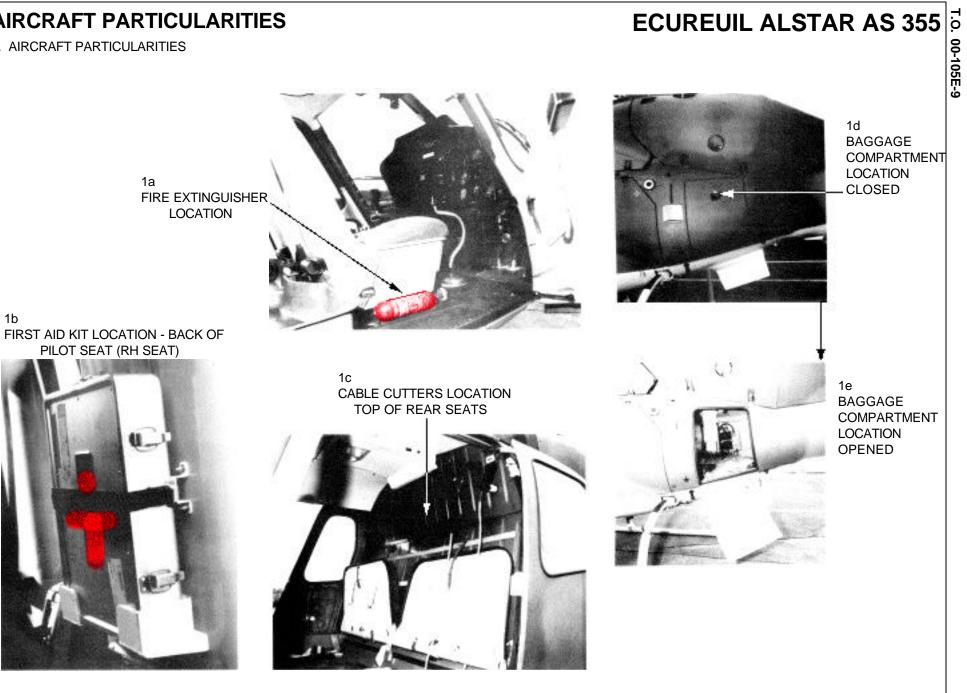


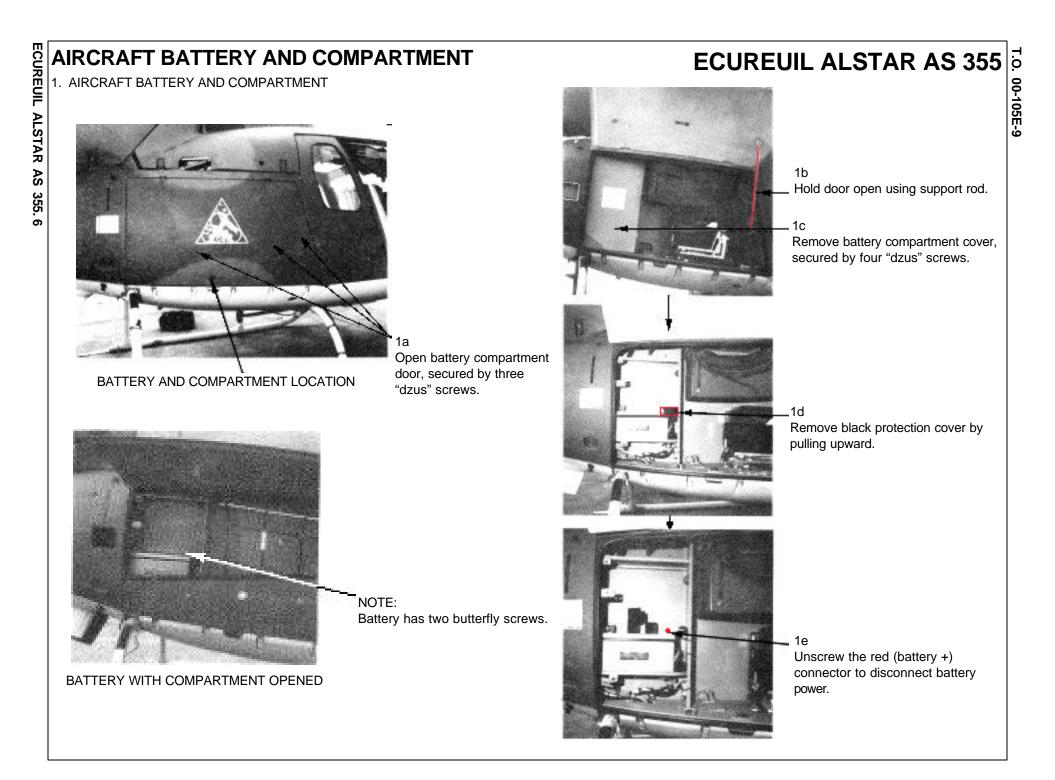
ECUREUIL ALSTAR AS 355.3



### **AIRCRAFT PARTICULARITIES**

**1. AIRCRAFT PARTICULARITIES** 

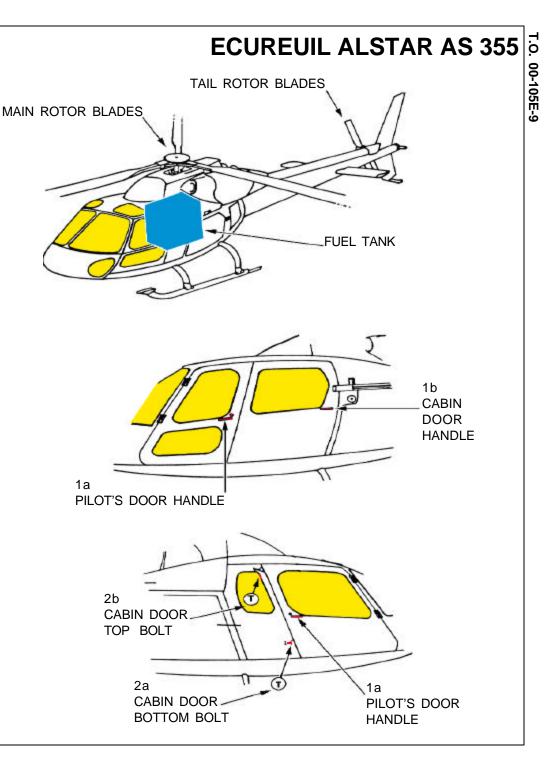




### ECUREUIL ALSTAR AS 355.7 SPECIAL TOOLS/EQUIPMENT Power Rescue Saw Crash Ax

AIRCRAFT ENTRY

- 1. NORMAL AND EMERGENCY ENTRY
- a. To open pilot's door, turn door handle downward; door will open by itself.
- b. To open cabin door, turn door handle downward.
- c. Lightly pull door outward to release door from its housing, then push door backward.
- 2. INTERNAL EXITING
- a. To open cabin door internally, turn top door bolt  $\bigcirc$  1/4 turn, then lower it.
- b. Turn bottom door bolt  $\bigcirc$  1/4 turn, then lift it.
- 2. CUT-IN
- a. Cut-in fuselage as required.

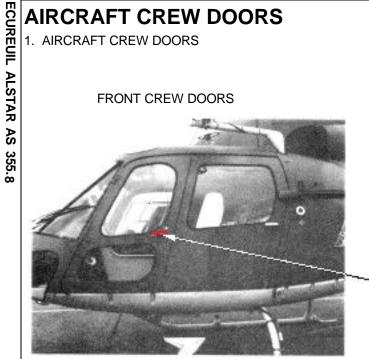


#### **AIRCRAFT CREW DOORS**

1. AIRCRAFT CREW DOORS

## ECUREUIL ALSTAR AS 355

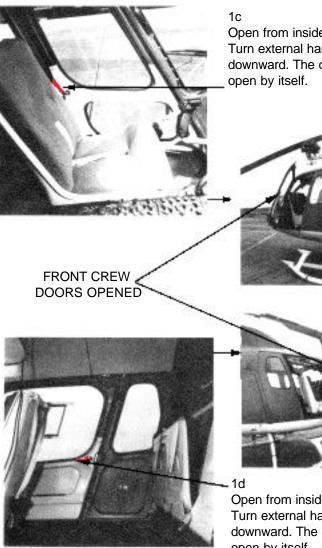
FRONT CREW DOORS



1a Open from outside (left). Turn external handle downward. The door will open by itself.



1b Open from outside (right). Turn external handle downward. The door will open by itself.



Open from inside (left). Turn external handle downward. The door will

Open from inside (left). Turn external handle downward. The door will open by itself.

#### **AIRCRAFT DOORS**

1. AIRCRAFT DOORS

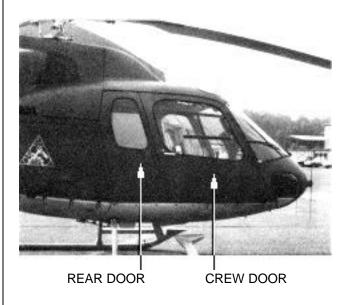
ECUREUIL ALSTAR AS 355.9

## ECUREUIL ALSTAR AS 355

REAR DOORS



REAR DOOR EXTERNAL HANDLE





1a

Open from outside (left). Turn external handle downward. Pull door slightly towards you to disengage it from its closed position and push toward the aft of the aircraft.

CREW AND REAR DOORS OPENED

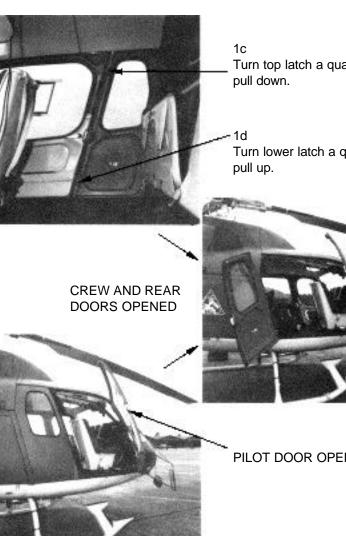
> 1b Pull lever "L" upward. Push down slightly away from you to disengage door from its closed position and push toward the aft of the aircraft.

#### **AIRCRAFT DOORS-Continued**

#### 1. AIRCRAFT DOORS-Continued

ECUREUIL ALSTAR AS 355.10

## ECUREUIL ALSTAR AS 355

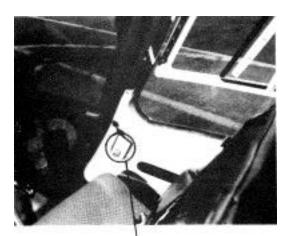


Turn top latch a quarter turn, then

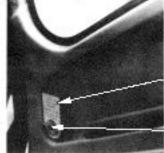
Turn lower latch a quarter turn, then



#### PILOT DOOR OPENED



1e To remove the emergency door from inside the cockpit (right and left). (Inside only.)

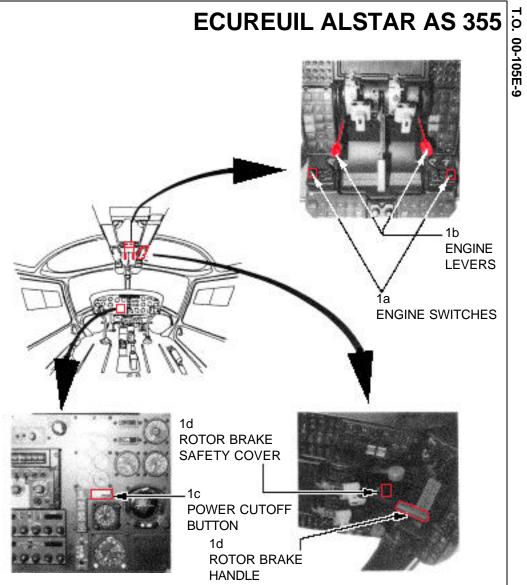


1f To remove emergency door, remove cover.

1g Pull emergency door handle up.

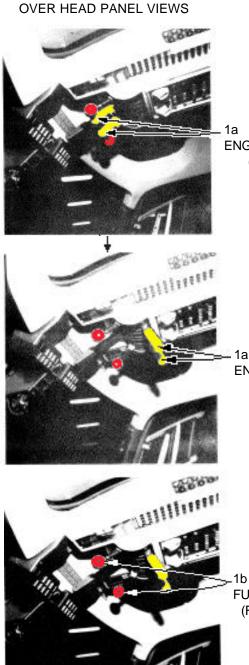
#### **ENGINE SHUTDOWN-Continued**

- 1. ENGINE SHUTDOWN
- a. Lift safety covers, located on the over head panel, and place engine shutoff switches the DOWN position.
- ECUREUIL ALSTAR AS 355.11 b. Pull both fire cutoff switches, located on the over head panel, toward the AFT position.
  - c. Depress the red power cutoff button ("main power interupting") located on the center control panel, ONCE. (Only emergency flight instruments will remain powered.)
  - d. To operate the rotor brake, located on the over head panel, remove safety cover and pull the rotor brake handle to the AFT position.



### **ENGINE SHUTDOWN-Continued**

- 1. ENGINE SHUTDOWN-IN CASE OF FIRE
  - a. Pull both engine shutdown (yellow) handles, located on over head panel, slightly toward the right to unlock and continue pull all the way to the AFT position.
- b. Firmly pull both fuel cut-off (red) handles, located on over head panel, to the AFT position.



## ECUREUIL ALSTAR AS 355

ENGINE SHUTDOWN HANDLES (FORWARD POSITION)

ENGINE SHUTDOWN HANDLES (AFT POSITION)

1b FUEL CUT-OFF HANDLES (FORWARD POSITION)

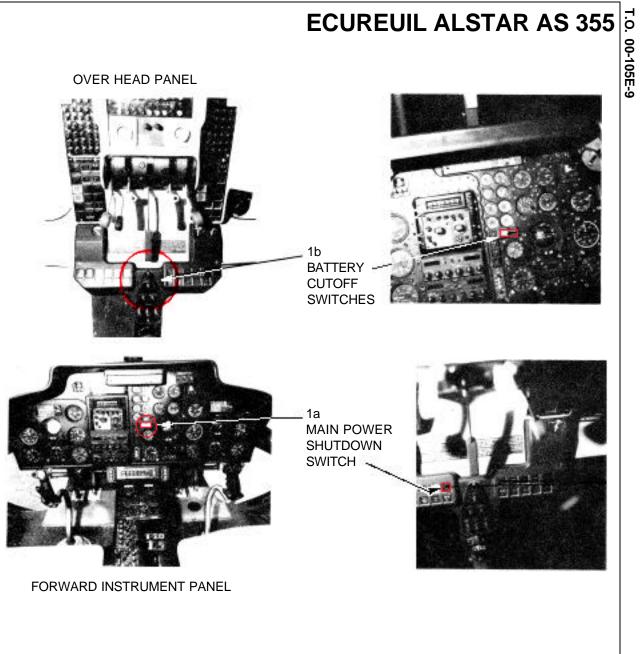
ECUREUIL ALSTAR AS 355.12

#### **POWER SHUTDOWN**

#### 1. POWER SHUTDOWN

ECUREUIL ALSTAR AS 355.13

- a. The main power shutdown switch is located on the forward instrument panel.
- b. The battery cut off switches are located on the over head panel.



### **AIRCRAFT EXTRACTION**

1. AIRCREW EXTRACTION

ECUREUIL ALSTAR AS 355.14

- a. Adjust seats allowing room for pilot and co-pilot extraction. Push down on seat adjustment lever located on left hand side of seat and then pull seat back.
- b. Pull on center harness tab to release crew member from shoulder harness and safety belt.
- c. Rear passengers may have safety belt only.

HARNESS RESTRAINT SYSTEM

1a SEAT ADJUSTMENT

## ECUREUIL ALSTAR AS 355



1b CENTER HARNESS TAB



## ECUREUIL 2 1.0. 00-105E-9

The aircraft information is pending release.

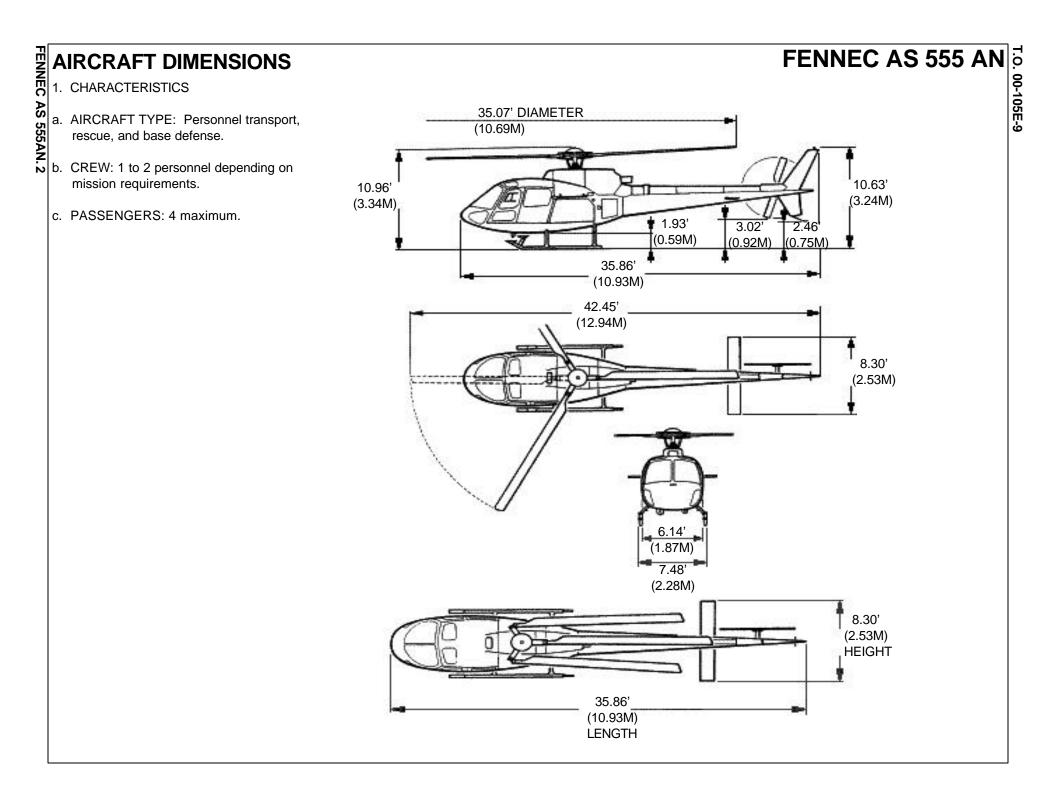
### **AIRCRAFT PAINT SCHEME**

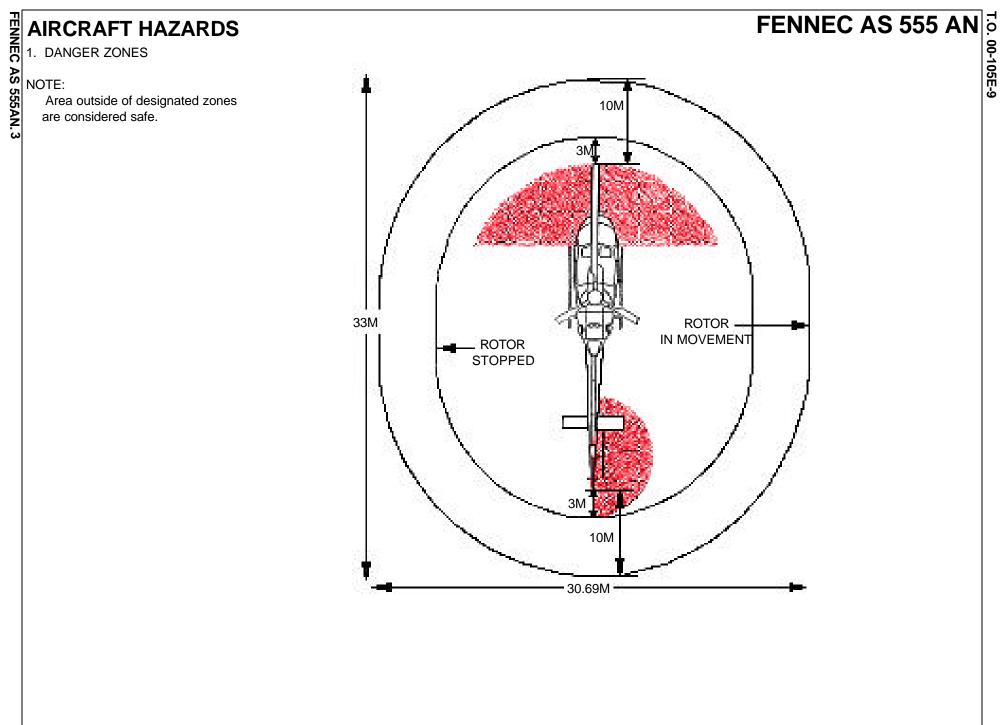
## FENNEC AS 555 AN

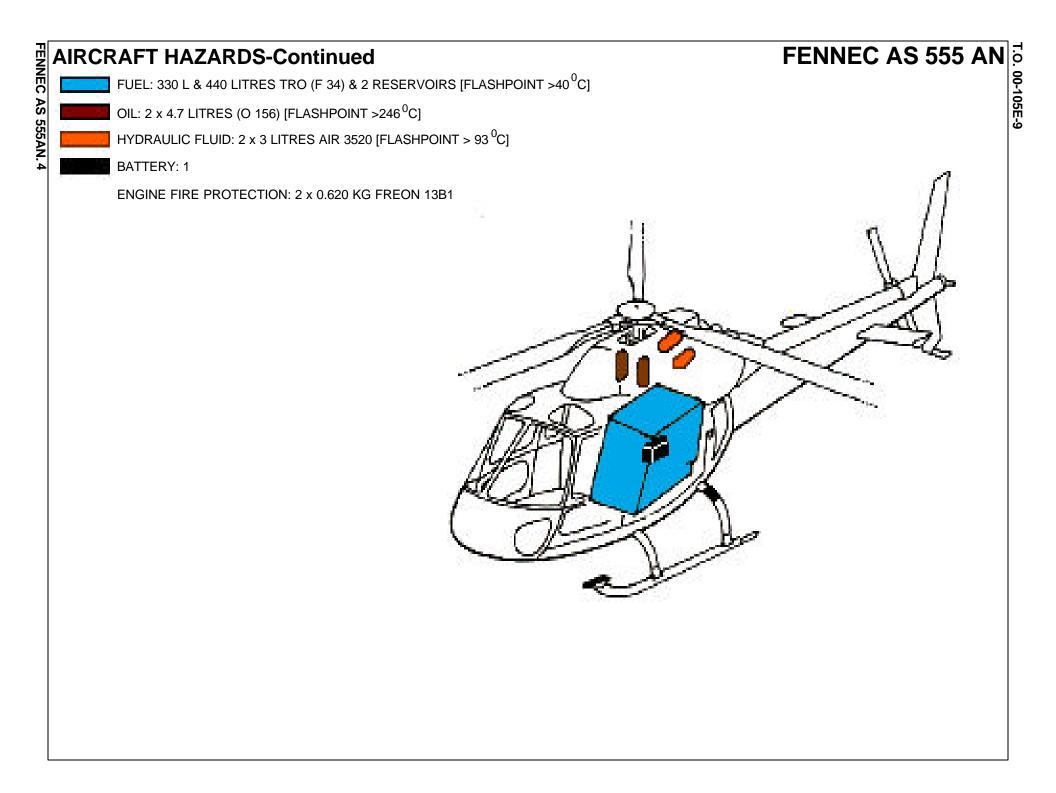












# BATTERY LOCATION, DISCONNECT AND REMOVAL 1. BATTERY LOCATION, DISCONNECT AND REMOVAL a. On the aft right side of the fuselage, doprese table to even top source of

### FENNEC AS 555 AN .0. 09-105E-9

- depress tabs to open top cover of battery compartment.
- b. Unscrew the "DZUS" screws to open the lower cover of battery compartment.
- c. Remove the lower cover held by the "DZUS" screws.
- d. Unscrew the red connectors attached to the battery.
- e. Remove the battery from battery compartment.

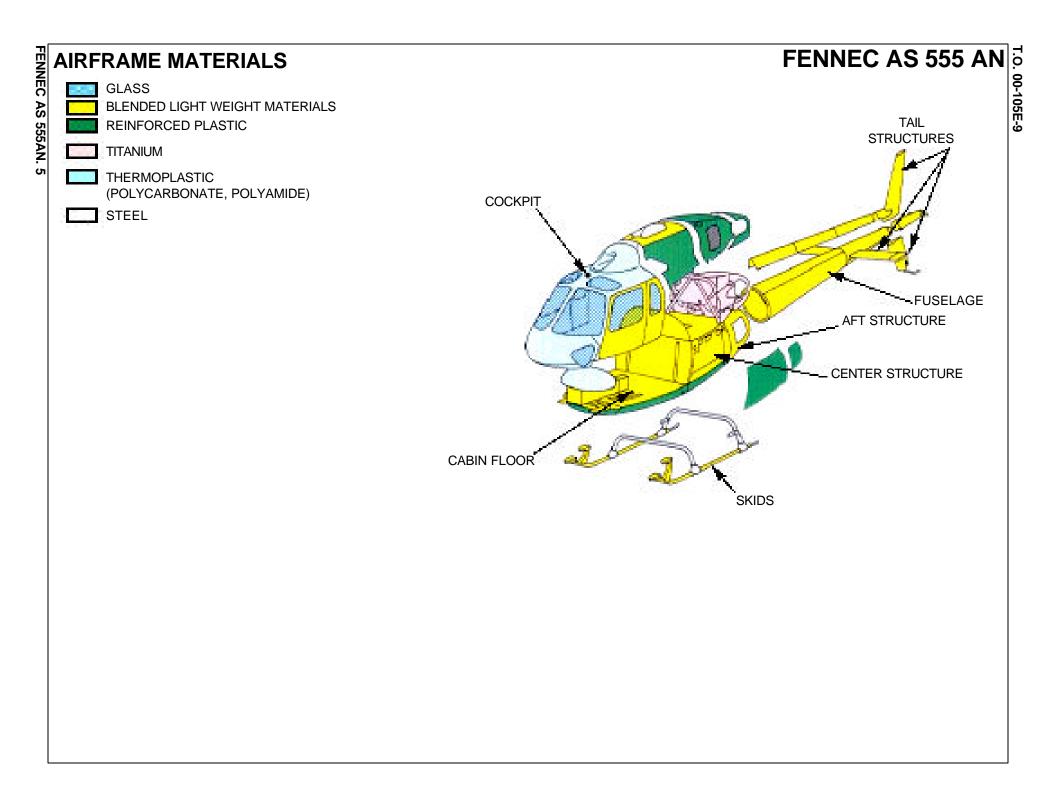




UU



1d, 1e BATTERY



# SPECIAL TOOLS/EQUIPMENT Power Rescue Saw AIRCRAFT ENTRY 1. NORMAL ENTRY a. Open crew door (left or right side) by turning door headle downword

- by turning door handle downward.
- b. Open rear doors (left or right side) by turning door handle downward.
- c. Pull rear door slightly towards yourself to disengage it from its closed position and push toward the back of the aircraft.
- 2. EMERGENCY ENTRY
- a. Same as normal entry. Doors are not jettisoned externally.
- 3. CUT-IN
- a. Cut into fuselage as needed. Avoid cutting near personnel.

CREW DOOR HANDLE

1a





1a

1b REAR DOOR HANDLE



### NORMAL AND EMERGENCY EXITS

- NORMAL AND EMERG
  1. NORMAL EXITS
  a. Open crew door (left or right side) by turning door handle downward.
  b. Open rear doors (left or right side) by turning door handle upword
  - by turning door handle upward, push rear door slightly away from yourself to disengage it from its closed position and push toward the back of the aircraft.

#### 2. EMERGENCY EXITS

a. To release the crew doors, remove the safety cover and pull handle to jettison door.



2a CREW DOOR HANDLE

2b AFT DOOR HANDLE





CREW DOOR SAFETY COVER AND HANDLE



# FENNEC AS 555AN.8 **ENGINE AND ELECTRICAL SHUTDOWN**

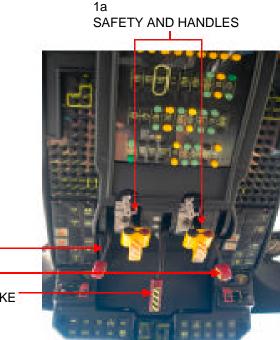
## 1. ENGINE SHUTDOWN

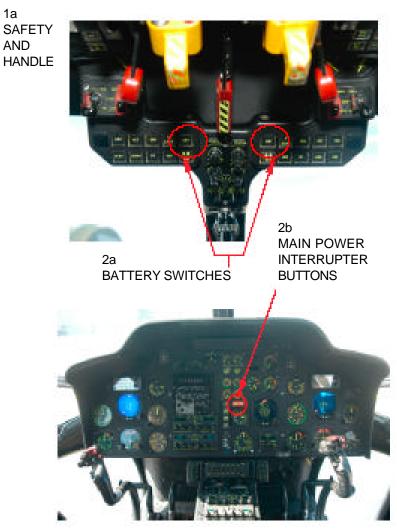
- a. On the overhead panel, remove safety and pull the handles aft.
- b. Pull both fire cut off handles. located on the overhead panel, aft.
- c. Pull rotor brake handle, located on the overhead panel, aft.
- 2. ELECTRICAL SHUTDOWN
- a. Press both battery (BAT) switches, located on overhead panel, to the OFF position.
- b. Press the main power interrupter buttons, located on the forward instrument panel, to the OFF position.

FIRE CUT OFF HANDLES 2b ROTARY BRAKE HANDLE

2b







# FENNEC AS 555 AN

## **AIRCREW EXTRACTION**

- AIRCREW EXTRACTION 1. AIRCREW EXTRACTION a. Pull tab at mid section to free creater member from harness restraints. b. Release passengers from safety harness a. Pull tab at mid section to free crew member from harness restraints.
  - harness.



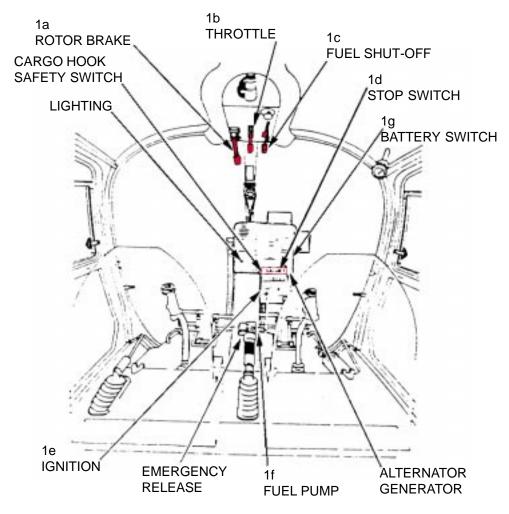


GAZEI	SPECIAL TOOLS/EQUIPMENT Power Rescue Saw	NOTE: Rubber covering on main rotor and tail rotor tie bar contain carbon fibre strands		MAIN ROTOR DANGER AREA	ENGINE HYDRAULIC	GAZEL	GAZELLE AH1 ਰੂਂ	
E AH	Crash Ax AIRCRAFT ENTRY	and may pose a carcinoge				NTAKE ENGINE EXHAUST	TAIL -100 -100 -100 -100 -100 -100 -100 -10	
<u>-</u>	1. NORMAL ENTRY					AREA		
-	a. To open forward main doors, push	button, turn door		100		100		
	handle, and pull out forwards.					D		
	b. To open rear doors, forward main o	loors must be accessed,		/	N 22-3-		49	
	operate interior door handle.			(	1 H	7	8	
	2. EMERGENCY ENTRY				Jan J	3		
	NOTE:					V /		
	Doors are not equipped with pyrote	chnics Jettisoning		1 7	the state of the s			
	doors means to separate doors fro	-	(2 N	7 FT /IETERS)	in the second	D		
	a. To jettison forward door, lift door ha	indle upwards.		+				
	<ol> <li>To jettison rear doors, forward main</li> </ol>		MAXIMUM CLE	ARANCE	FUEL TANK			
	cessed, lift interior door handle upv	vards.	ON LEVEL (	GROUND	(AVIATION)			
				BATTER		LUGGAGE COMPAR	RTMENT	
	3. CUT-IN			RD DOOR	(500 LITRES)			
	a. Cut-in fuselage as required.		RELEASE		FORWARD	REAR DOC	DC	
			RELEASE		MAIN	INTERIOR		
	OTHER HAZARDS: Weapons may be carried in Light F	iro Dowor, Support		1 1/1	DOORS			
	Role, eg: Machine Guns, Rockets,			1 1/1		THEAD		
	pensers, etc.			116	No.			
				120		Turn		
	Acids - Batteries			V11 .	1/	NI /		
	mochlorodifluoromethane - Fire Extinguishant			T		X IN		
	Bromotrifluoromethane - Fire Extinguis				2	MI		
	Composite Materials - Man Made Fibr					1		
	Dimethylformamide - Strobe Power Pa	ack		121		L 11		
	Ground Illuminating Flare Dispenser			121		N		
	Nitesun Light System			RES		The second		
	Polytetrafluoroethylene - PTFE Sonar Locator Beacon(s) - Lithium Ba	tton		Nº /				
	Very Flare	liery		2			EAR ETTISON	
	Fuel: AVTUR			95	12-1		OOR	
	Hydraulic Oil: OM-15		FIRE EXTINGU	/ /	L		ANDLE	
	HP Gases: Nitrogen		(PILOT'S FOOT			IRST AID KIT		
	Engine Oil: OX-38		STARBOARD S	IDE) JETTISON	(1	NSIDE DOOR)		
	Oxygen: NIL			DOOR HAN	IDLE DOOR STOPS			
L					AND LOCK			

# **ENGINE SHUTDOWN** GAZELLE AH1.2

## 1. ENGINE SHUTDOWN

- a. Gently apply rotor brake, located on overhead control panel.
- b. Retard throttles, located on overhead control panel, to the OFF position.
- c. Pull the fuel shut-off switch, located on the forward center panel, to the AFT position.
- d. Place stop switch, located on the forward center panel, to the STOP position.
- e. Place Ignition switch, located on the forward center panel, to the OFF position.
- f. Place the fuel pump switch, located on the forward center panel, to the OFF position.
- g. Place the battery switch, located on the forward center panel, to the OFF position.

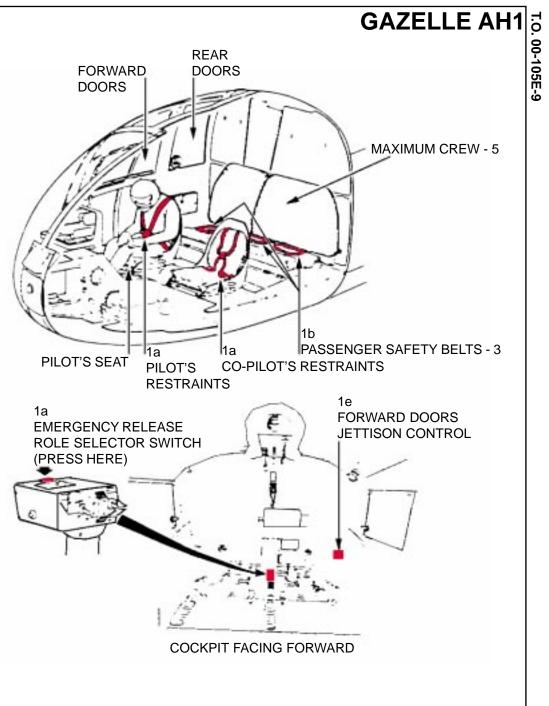


# GAZELLE AH1

## GAZELLE AH1. 3 AIRCREW EXTRACTION AND **EMERGENCY ACTIONS**

1. AIRCREW EXTRACTION

- a. Release crew from seats by disconnecting safety belts and harness restraint straps, setting straps aside, and removing crew.
- b. Release passengers from seats by disconnecting safety belts, setting belts aside, and removing passengers.
- 2. EMERGENCY ACTIONS
- a. Press the emergency release role selector switch, located on center control.
- b. For the winch, cut the cable.
- c. For the cargo door, jettison.
- d. For armament, jettison armament and set to OFF position.
- e. To internally jettison forward doors, press down on door handle and push out door.

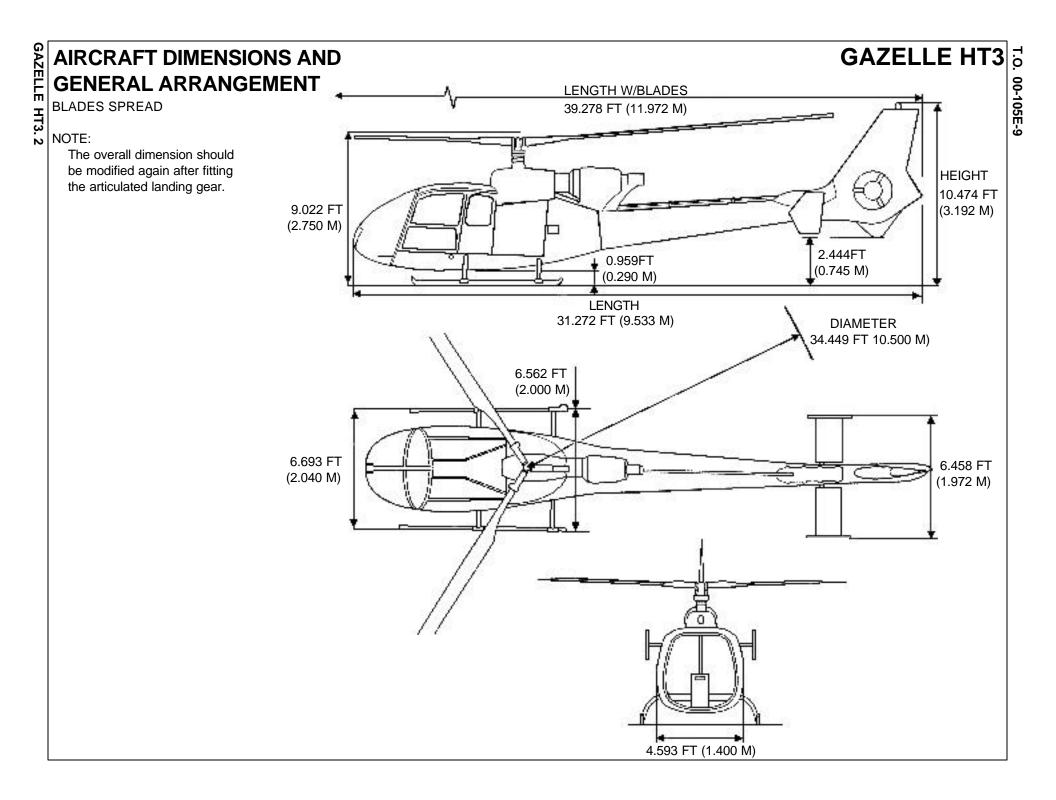


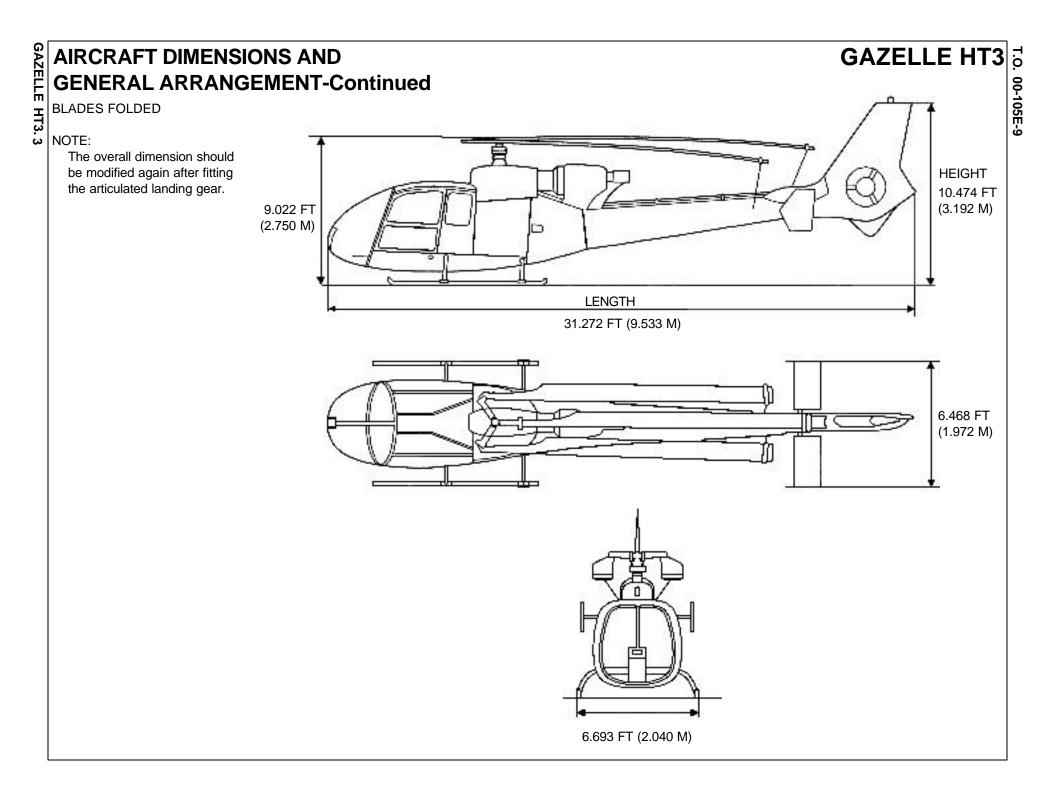
# GAZELLE HT2

The aircraft information is pending release.

## AIRCRAFT PAINT SCHEME







## AIRCRAFT DATA AND HAZARD LIST

GAZELLE HT3.4 AIRCRAFT DATA Single Rotor Helicopter

One Turbomesa Astezo IIIA turboshaft

Military Freight Passenger: 1 crew

4 passengers

Aircraft Weight: AUW 1657.3 Kgs



Fires resulting from this type of aircraft crash may produce toxic fumes which are hazardous to health.

Personal Protective Equipment (recommendations made by the GRB Royal Navy to be worn at crash site):

Standard No.3 (combat) Dress. Appropriate weather protection. Civil Emergency Services wear normal uniform with appropriate weather protection. Safety helmet (as required).

	HAZARD LIST					
HAZARD TYPE	ITEM	QUANTITY	LOCATION			
Acid - Sulfuric	Battery	1	Nose Compartment			
Avtur F-34	Fuel	450 Liters	Fuel Tanks, Ferry Tanks (200L)			
Bromochloroufluoro - Methane (BCF)	Cabin Fire Extinguisher	2.5 Kg	Various			
Cabin Insulation	Sound Insulation	On Aircraft	Various throughout			
Cadmium & Cadmium Oxide	Plated Components	On Aircraft	Various throughout			
Dimethylformamide (DMF)	Strobe Power Pack	On Aircraft				
Glass Fibers	Main Rotor Blades					
Lead	Main Rotor Blades	3				
Lithium (Non Rechargeable Batteries			SLB			
Nitrogen Compressed			Hydraulic Accumulators			
OEP-71	Transmission Gear Box	4 Liters				
OM-15	Hydraulic System	2.5 Liters	Aircraft System			
OX-7	Engine Lubrication System	10 Liters	Engine System			
Polytetrafluoroethylene (PTFE)		On Aircraft				
Rotor Tie-Bars (Gazelic)	Main & Tail Rotors					
Sonar Locator Beacon		1				
Titanium	Components in Main Gear Box					
Very Flare	Flare					
Oxygen	N/A	Nil				

## **AIRCRAFT HAZARDS**

GAZELLE HT3.5

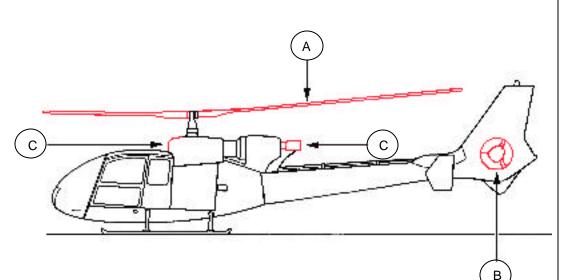
## WARNING

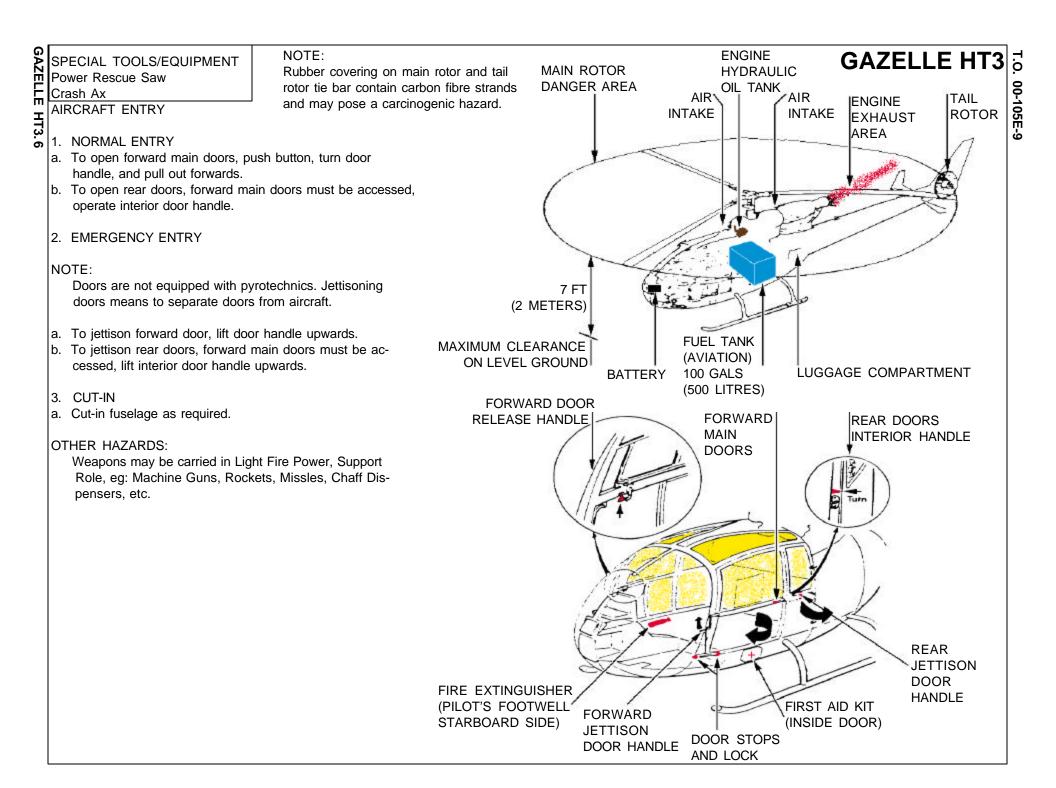
MAIN ROTORS: Never approach the aircraft unless cleared to do so both by the pilot and the director. When cleared, approach at 90<sup>0</sup> from the starboard side of the aircraft and keep your head covered.

BLADE SAIL AND SWOOP: Never enter the rotor disc when the rotors are being engaged or shut down.

MANHANDLING: This aircraft is very fragile so only the handgrips provided are "push" areas. No other part of the aircraft is to be used for manhandling purposes.

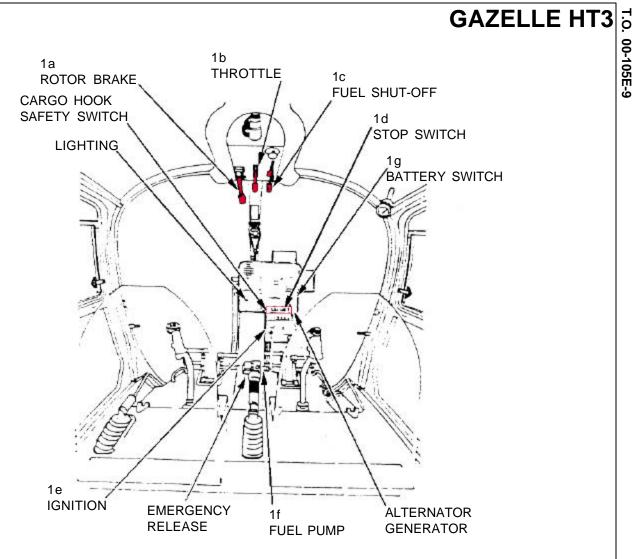
DANGER	DANGER AREAS					
A	Main rotor disc. Beware of blade sail and swoop. Never approach aircraft unless signalled to do so by the director and pilot.					
В	Tail rotor fan (enclosed but dangerous). Do not approach from the tail of the aircraft. Be always within view of the pilot.					
С	Beware of engine intakes and exhausts.					





## **ENGINE SHUTDOWN**

- 1. ENGINE SHUTDOWN
- GAZELLE HT3. a. Gently apply rotor brake, located on overhead control panel. ~
  - b. Retard throttles, located on overhead control panel, to the OFF position.
  - c. Pull the fuel shut-off switch, located on the forward center panel, to the AFT position.
  - d. Place stop switch, located on the forward center panel, to the STOP position.
  - e. Place Ignition switch, located on the forward center panel, to the OFF position.
  - f. Place the fuel pump switch, located on the forward center panel, to the OFF position.
  - g. Place the battery switch, located on the forward center panel, to the OFF position.



NOTE:

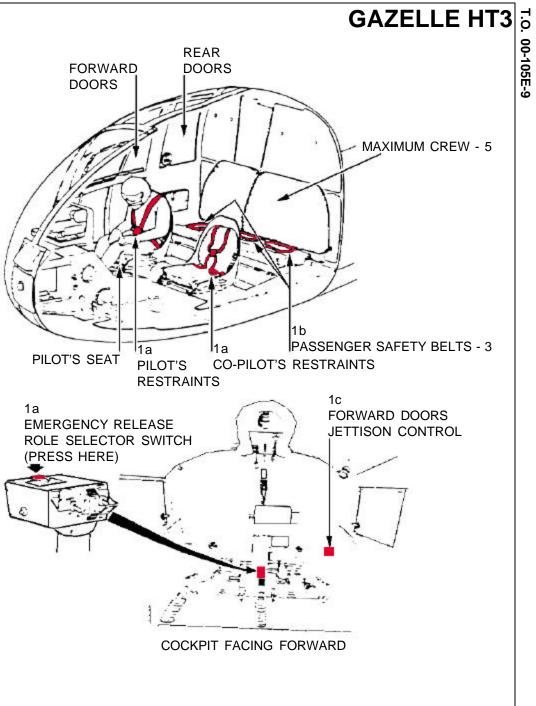
Flare safety pin is removed for flight. Insert to make firing button inoperative.

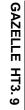
## AIRCREW EXTRACTION AND **EMERGENCY ACTIONS**

1. AIRCREW EXTRACTION

GAZELLE HT3. 8

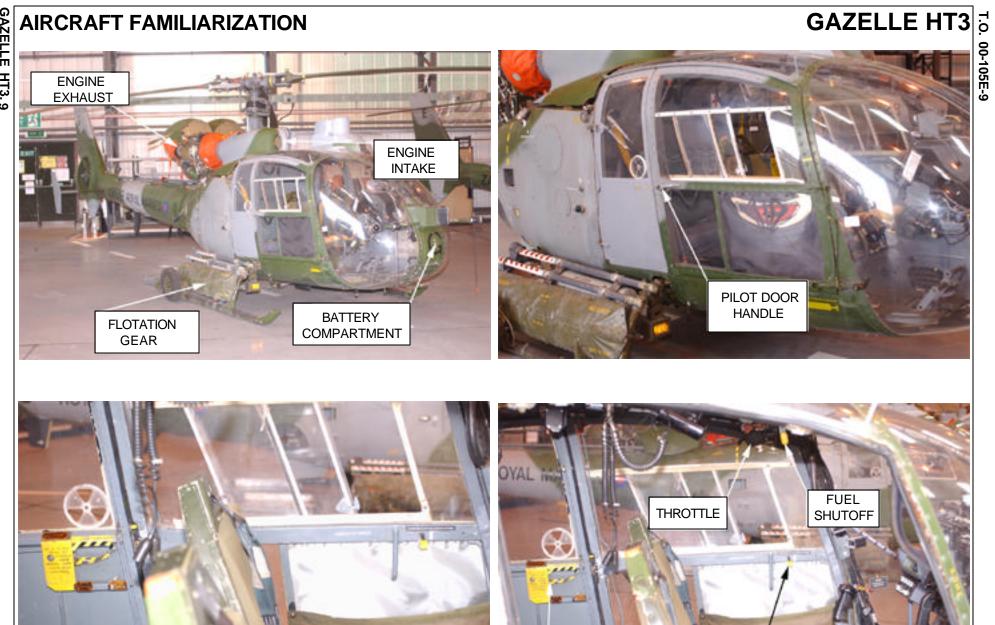
- a. Release crew from seats by disconnecting five point system for safety belts and harness restraint straps, setting straps aside, and removing crew.
- b. Release passengers from seats by disconnecting safety belts, setting belts aside, and removing passengers.
- 2. EMERGENCY ACTIONS
- a. Press the emergency release role selector switch, located on center control.
- b. For armament, jettison armament and set to OFF position.
- c. To internally jettison forward doors, press down on door handle and push out door.





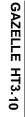
## **AIRCRAFT FAMILIARIZATION**

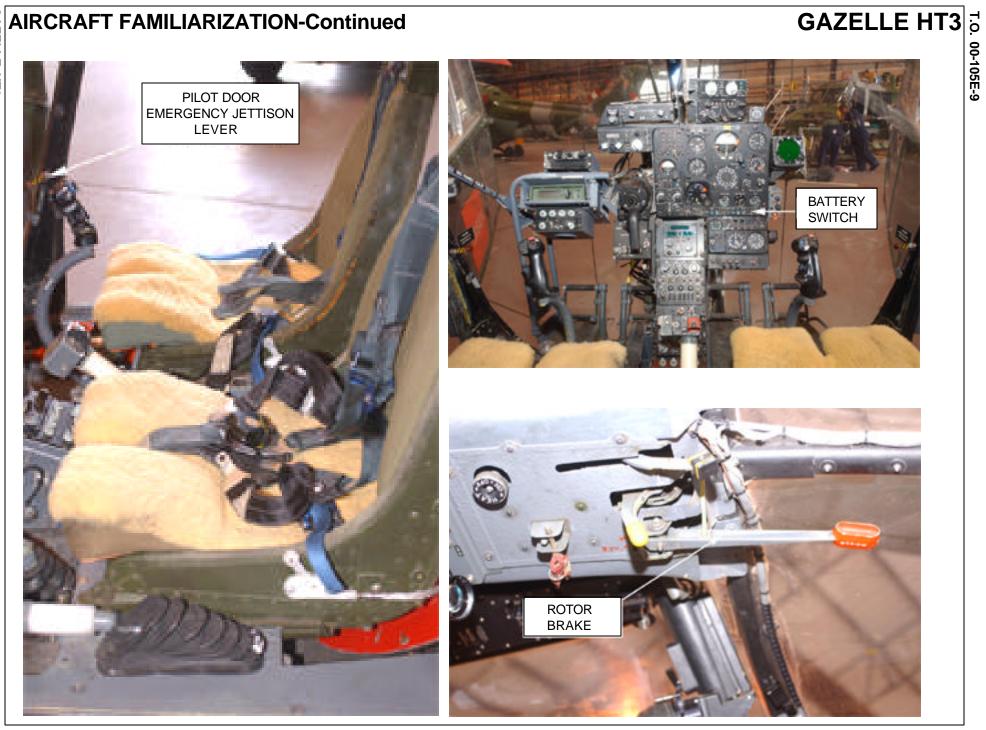
FRONT DOOR JETTISON LEVE



REAR DOOR JETTISON LEVER

## **AIRCRAFT FAMILIARIZATION-Continued**

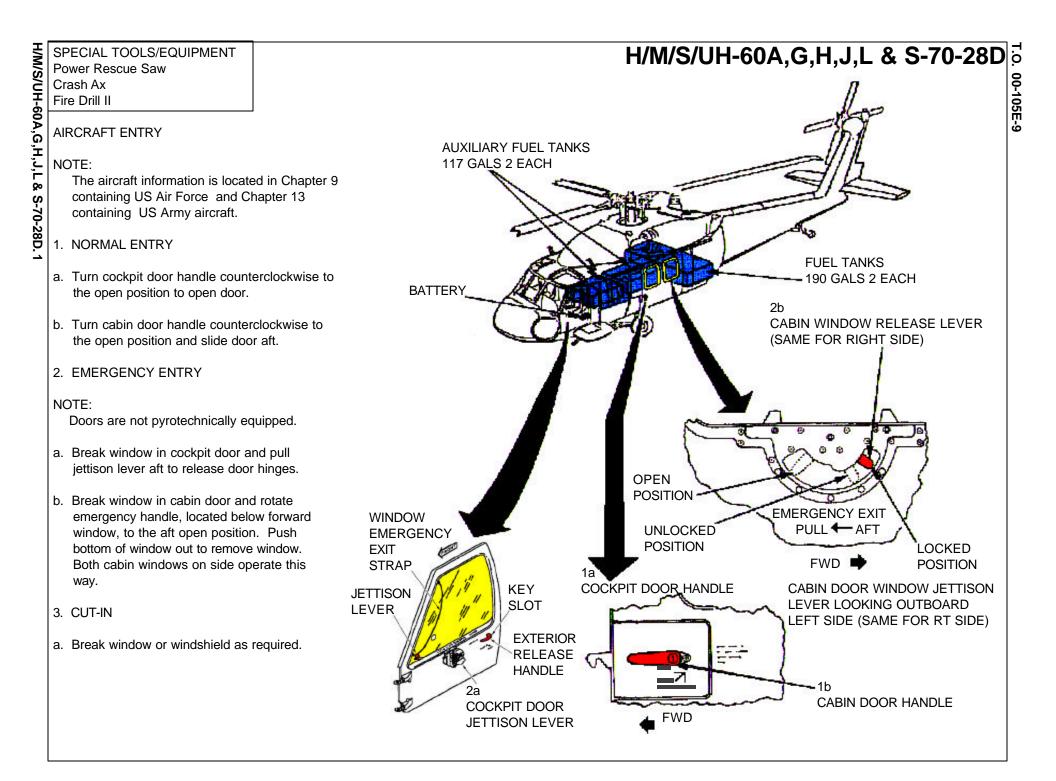




T.O. 00-105E-9

HH-3F.1

The aircraft information is pending release.



## **ENGINE SHUTDOWN AND AIRCREW EXTRACTION**

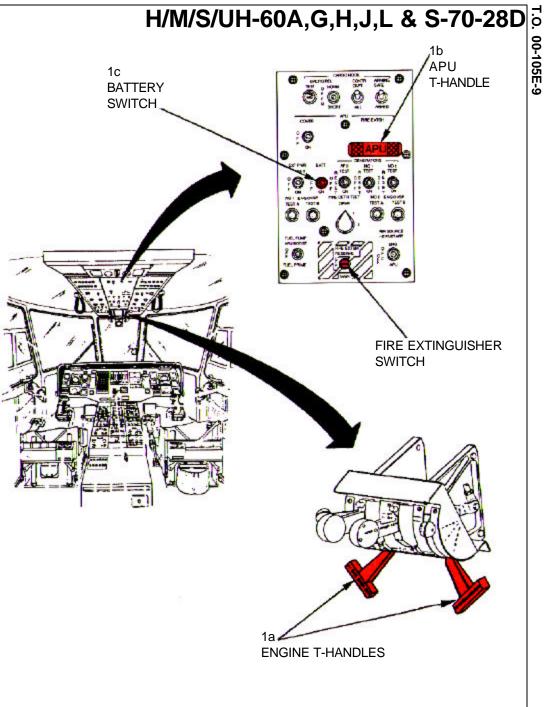
1. ENGINE SHUTDOWN

#### NOTE:

H/M/S/UH-60A,G,H,J,L & S-70-28D. 2

Battery switch must be in the ON position. To activate the installed fire extinguishing system, one T-handle must be pulled (agent is discharged to last T-handle pulled). Then, reposition the fire extinguisher switch from OFF to MAIN or RESERVE.

- a. Pull engine emergency T-handles, located on control quadrant, FULL AFT, to cut off fuel flow.
- b. Pull APU T-handle, located on overhead console, DOWN.
- c. Place battery switch, located on overhead console, to the OFF position.
- 2. AIRCREW EXTRACTION
- a. Release all lap belts and shoulder harnesses from aircrew. All aircrew seats have a complete lap belt and dual torso restraint shoulder harness centrally attached to a rotary release buckle or a pull-up release lever.
- b. Disconnect personnel leads from aircrew.
- c. Release all lap belt and shoulder harnesses from troop seats occupants. All troop seats have a lap belt and shoulder harness centrally attached to a rotary release buckle.



#### SPECIAL TOOLS/EQUIPMENT Rescue Saw Crash Ax

NOTE: Additional information for this aircraft is located in Chapter 13 for the MH-6.

#### AIRCRAFT ENTRY

- 1. NORMAL AND EMERGENCY ENTRY
- a. Open main entry doors and right and left sides of fuselage.
- 2. CUT-IN

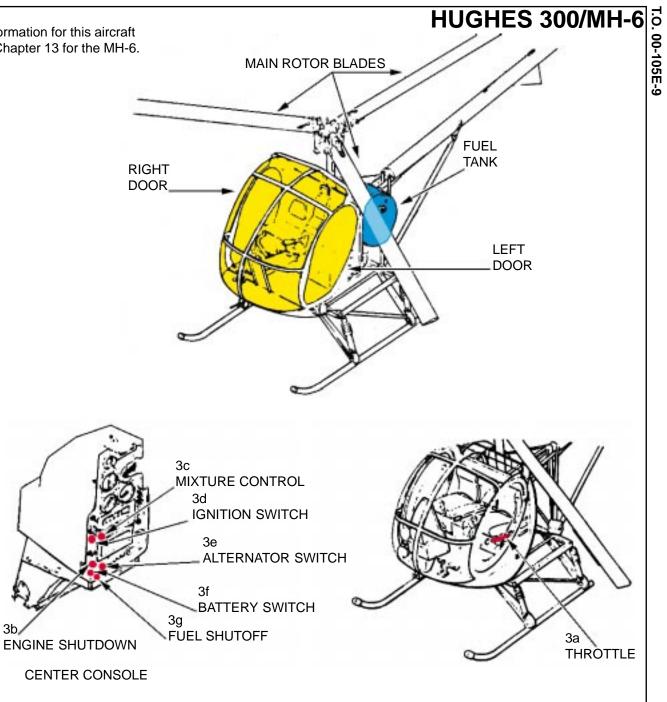
HUGHES 300/MH-6.1

- a. Cut-in fuselage/windows as required.
- 3. ENGINE SHUTDOWN
- a. Close throttle to idle engine speed of 1400 RPMs.

#### NOTE:

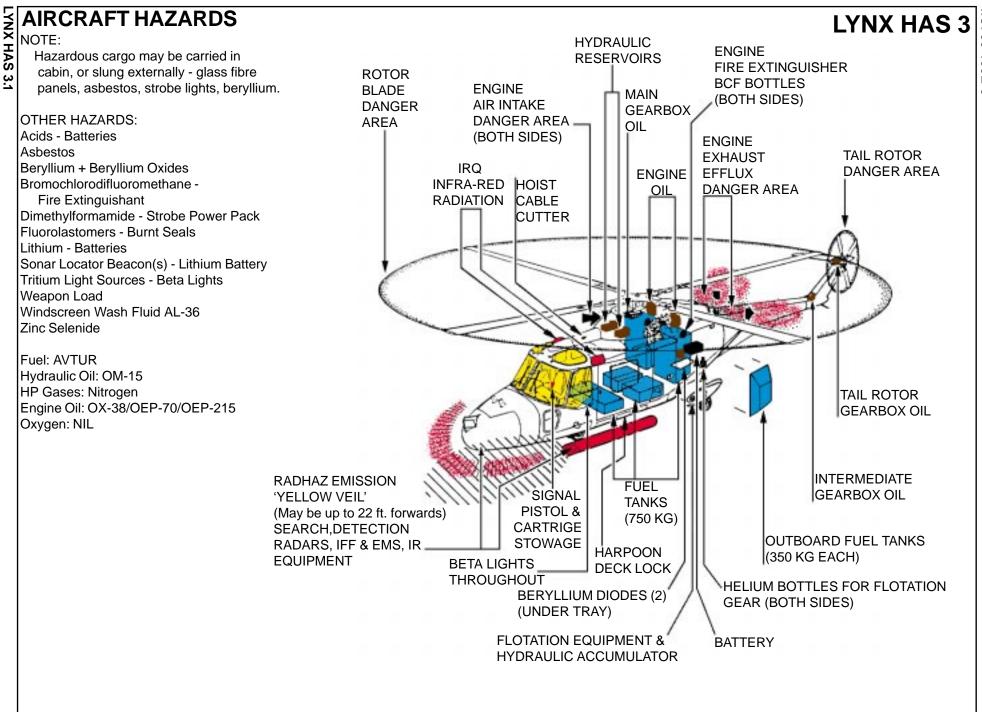
The following items are located on the center console.

- b. Shut down engine after clutch is released. (Rotor will be nearly stopped.)
- c. Place mixture control in IDLE CUTOFF position.
- d. Place ignition switch in OFF position.
- e. Place alternator switch in OFF position.
- f. Place battery switch in OFF position and all remaining switches in OFF position.
- g. Place fuel shutoff valve in CLOSED position.
- 4. AIRCREW EXTRACTION
- a. Release restraints from crew, set aside restraint straps and remove crew.

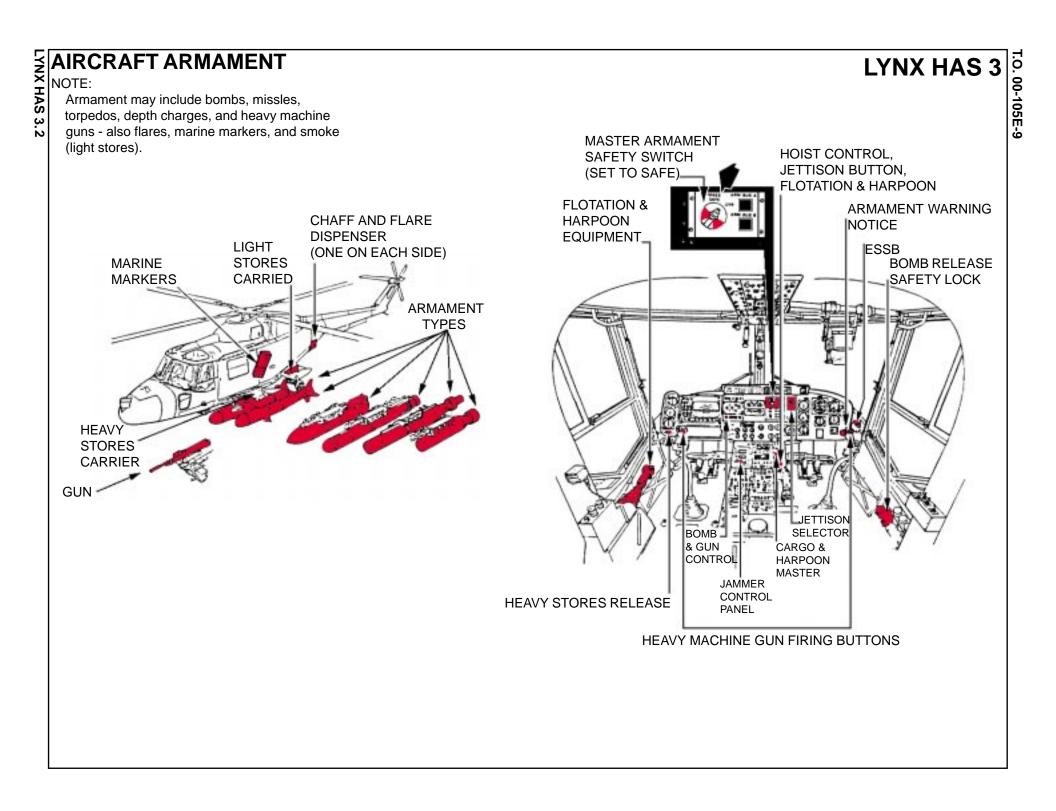


# HUGHES 500/OH-6

The aircraft information is located in Chapter 13 containing US Army aircraft.



F.O. 00-105E-9



#### SPECIAL TOOLS/EQUIPMENT Power Rescue Saw Crash Ax

SP Po Cra Alf

## AIRCRAFT ENTRY

### 1. NORMAL ENTRY

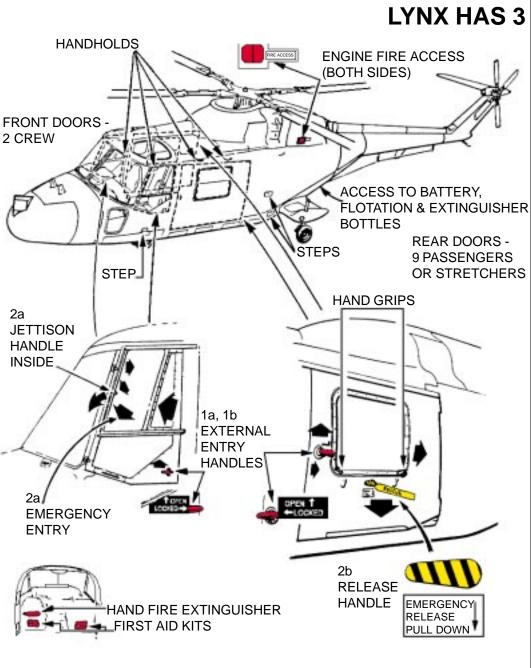
- a. Turn external entry door handles up, pull forward door out and forwards. Slide rear door aft.
- b. To open windows in rear doors, pull down release handle, pull windows outwards. ( A blade may have to be inserted between frame and door.)

## 2. EMERGENCY ENTRY

- a. For forward door, slide window aft, push jettison forward and down. Pull outwards.
- 3. CUT-IN
- a. Cut-in fuselage as required.

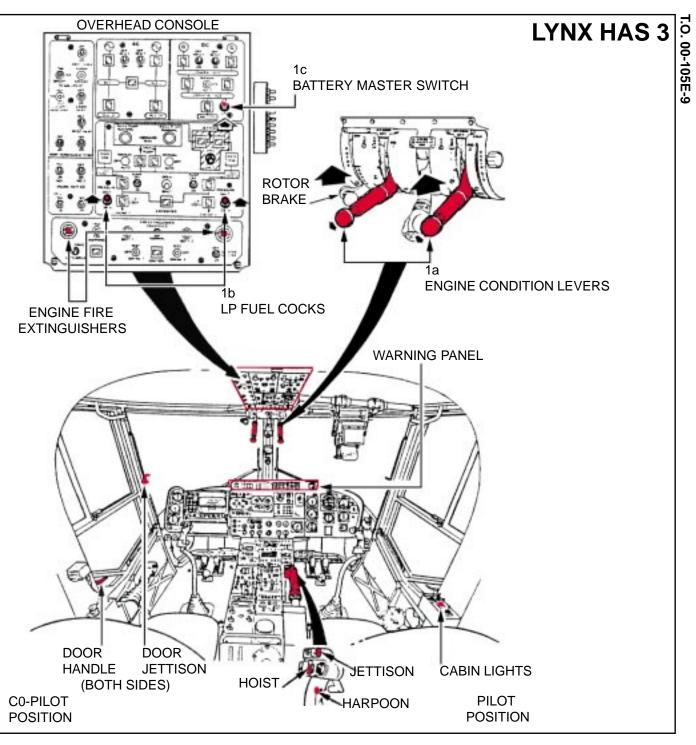
#### NOTE:

Winch in main cabin may be swung out of way by pulling down cord on starboard side.



## **ENGINE SHUTDOWN**

- **1. ENGINE SHUTDOWN**
- LYNX HAS 3.4 a. Raise engine condition levers, located on overhead control console, UP (aft) to HP COCK OFF postion.
  - b. Place LP fuel cocks, located on overhead control console, aft to SHUT position.
  - c. Place battery master switch, located on the overhead control console, to OFF position.



## AIRCREW EXTRACTION AND EMERGENCY EXIT DOORS

1. AIRCREW EXTRACTION

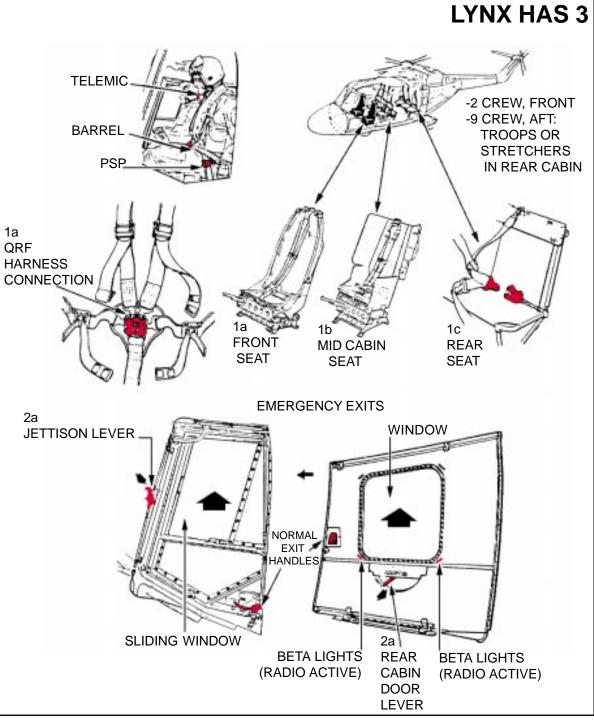
- a. Release crew in forward seats by releasing the QRF harness connection and other associated connections.
- b. Release crew in mid cabin seats by releasing restraint harnesses and other associated connections.
- c. Release crew in rear seats by releasing restraint harnesses and other associated connections.
- 2. EMERGENCY EXIT DOORS

#### NOTE:

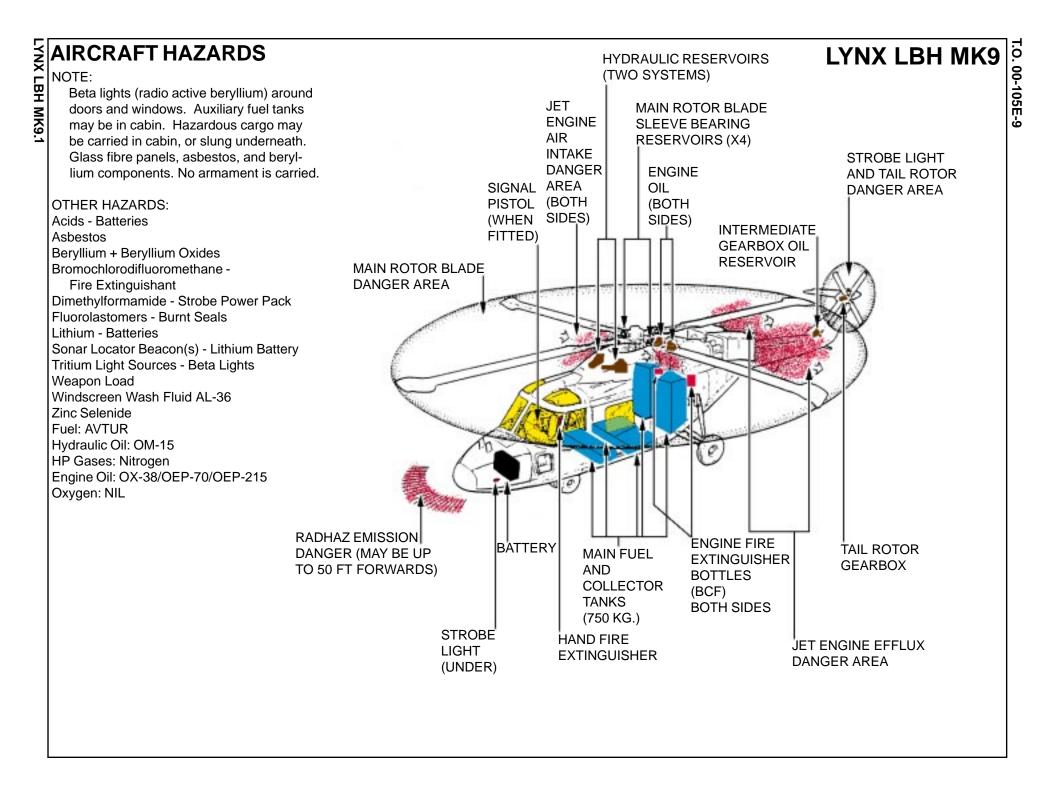
LYNX HAS 3.5

Exit doors can be jettisoned to make extraction of crewmembers faster.

- a. For front doors, push jettison forward and down, then push door out.
- b. For rear cabin doors, push jettison lever, located at bottom center of window, aft, then push window out.



F.O. 00-105E-9



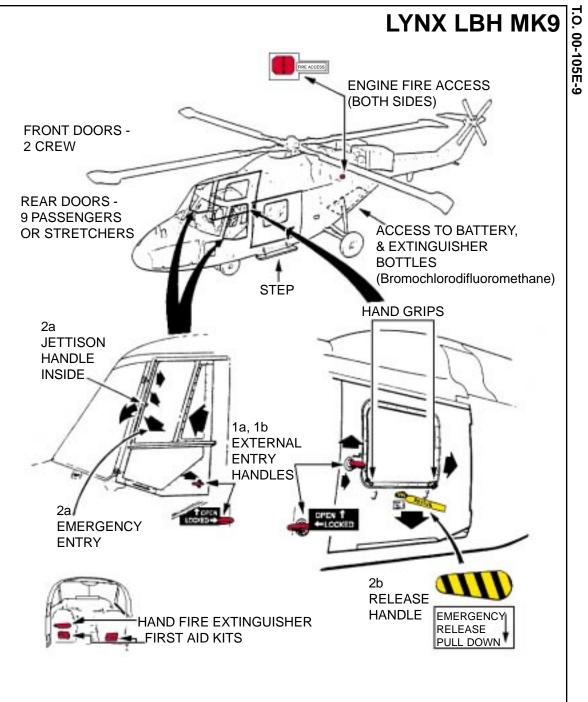
#### SPECIAL TOOLS/EQUIPMENT Power Rescue Saw Crash Ax

#### AIRCRAFT ENTRY

- LYNX LBH MK9.2 1. NORMAL ENTRY
  - a. Turn external entry door handles up, pull forward door out and forwards. Slide rear door aft.
  - b. To open windows in rear doors, pull down release handle, pull windows outwards. ( A blade may have to be inserted between frame and door.)
  - 2. EMERGENCY ENTRY
  - a. For forward door, slide window aft, push jettison forward and down. Pull outwards.
  - 3. CUT-IN
  - a. Cut-in fuselage as required.

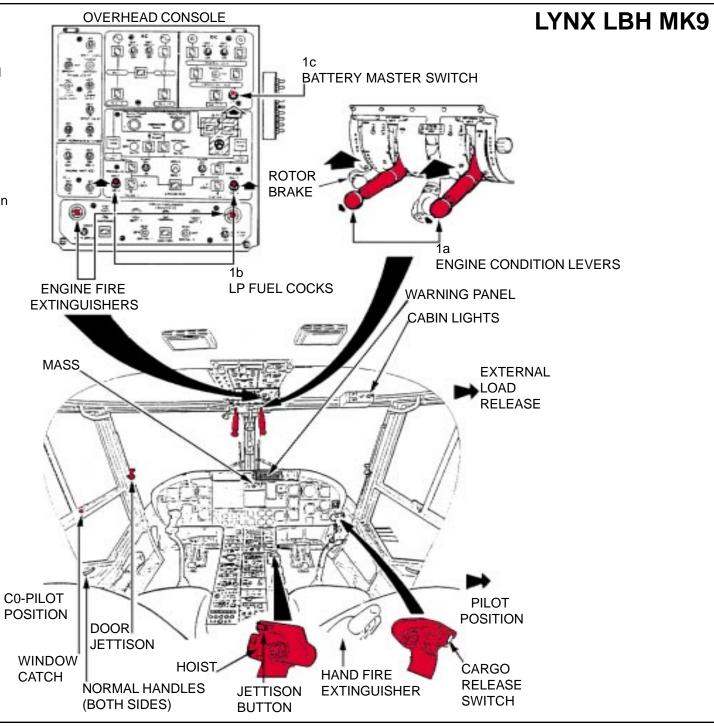
#### NOTE:

Winch in main cabin may be swung out of way by pulling down cord on starboard side.



# LYNX LBH MK9.3 **ENGINE SHUTDOWN**

- 1. ENGINE SHUTDOWN
- a. Raise engine condition levers, located on overhead control console, UP (aft) to HP COCK OFF postion.
- b. Place LP fuel cocks, located on overhead control console, aft to SHUT position.
- c. Place battery master switch, located on the overhead control console, to OFF position.



## **AIRCREW EXTRACTION AND** \_YNX LBH MK9.4 **EMERGENCY EXIT DOORS**

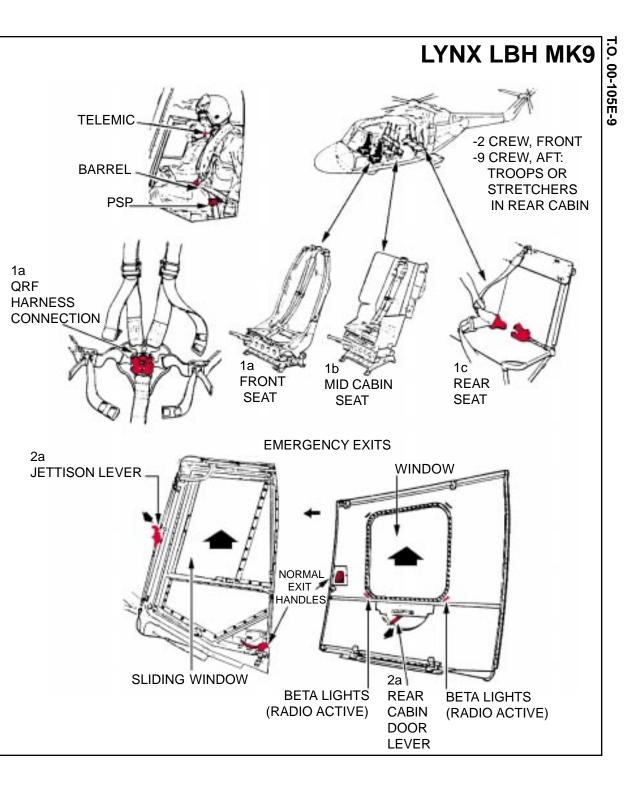
1. AIRCREW EXTRACTION

- a. Release crew in forward seats by releasing the QRF harness connection and other associated connections.
- b. Release crew in mid cabin seats by releasing restraint harnesses and other associated connections.
- c. Release crew in rear seats by releasing restraint harnesses and other associated connections.
- 2. EMERGENCY EXIT DOORS

#### NOTE:

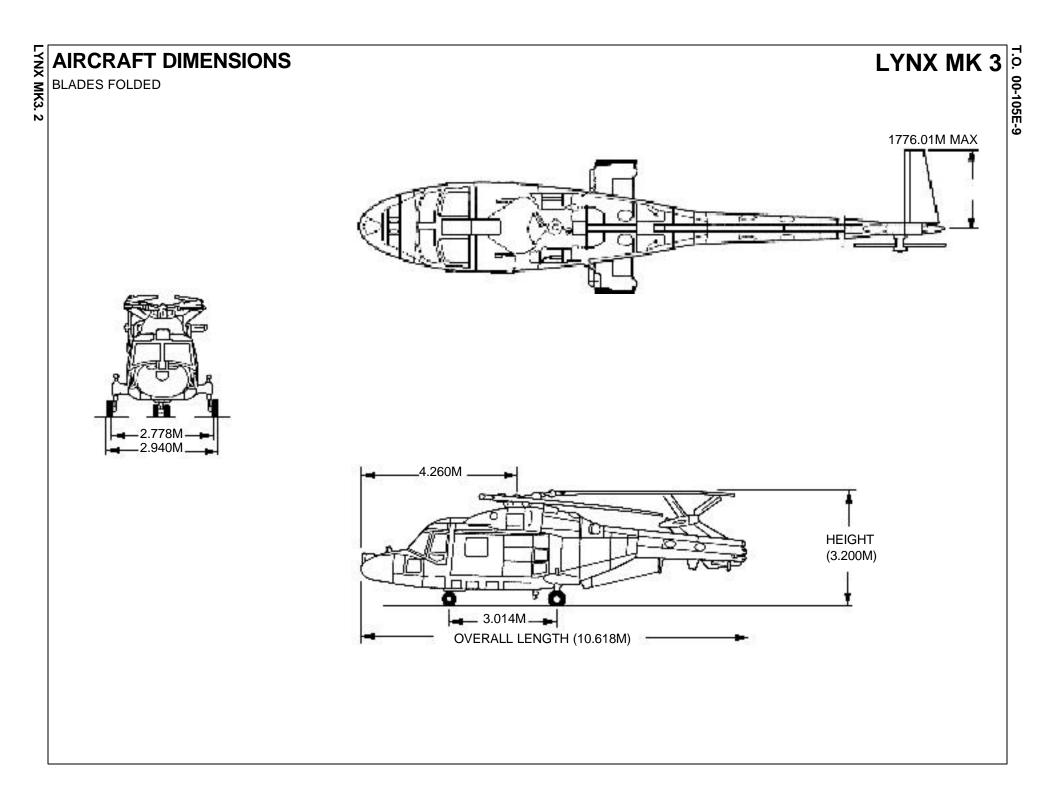
Exit doors can be jettisoned to make extraction of crewmembers faster.

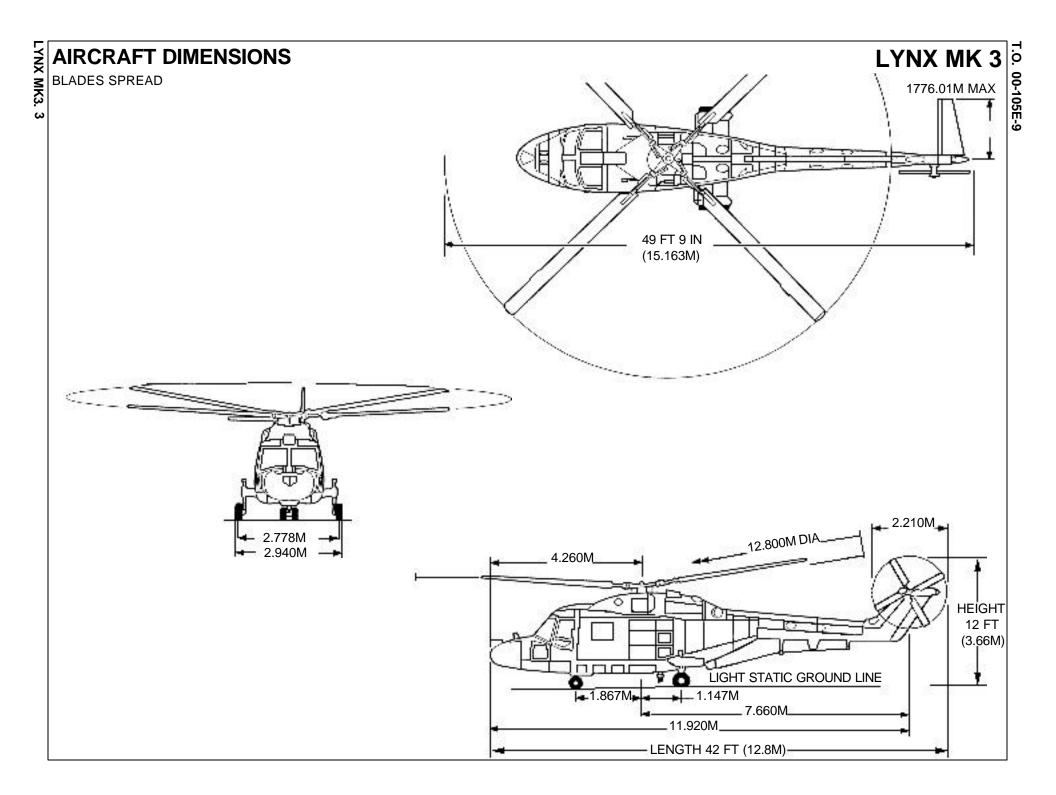
- a. For front doors, push jettison forward and down, then push door out.
- b. For rear cabin doors, push jettison lever, located at bottom center of window, aft, then push window out.



## AIRCRAFT PAINT SCHEME







## AIRCRAFT DATA AND HAZARD LIST

## LYNX MK3. 4 AIRCRAFT DATA

Single Rotor Helicopter

Two Rolls-Royce Gem 41-1turboshaft Military Freight/Passenger:

2 crew Maximim

10 passengers

Aircraft Weight: 8,000 lbs. (3,620 Kgs)



Fires resulting from this type of aircraft crash may produce toxic fumes which are hazardous to health.

Personal Protective Equipment (recommendations made by the GRB RAF Royal Navy to be worn at crash site):

Service issue overalls and gloves and Civil Emergency Services normal uniform with overall required.

Appropriate weather protection.

Safety helmet (as required).

Half-face (ori-nasal) mask. Examples: 3M Disposable Mask 22G/1321426 Sabre Half Mask 22G/4220-99-865-4140 Baxter Half Mask 22G/4220-99-865-4149

RD LIST			LYNX MK			
HAZARD LIST						
HAZARD TYPE	ITEM	QUANTITY	LOCATION			
Acid - Sulphuric			On Aircraft			
AL 36 Windscreen Wash Fluid			On Aircraft			
Asbestos			On Aircraft			
Avtur F-34 Fuel	Fuel	Internal 973 L External 2X436 L	Fuel Tanks			
Beryllium - Beriliua (Beryllium Oxides)			On Aircraft			
Bromochlorodifluoro - Methane (BCF)			On Aircraft			
Composite Materials (Man Made Minerals)	Airframe Materials		Carbon Fibre Rotor Blades			
Dimethylformamide			Strobe Power Packs			
Flourolastomers			Burnt Seals			
Gaseous Tritium Light Sources	Lights		Beta Lights			
Lithium (Non Rechargeable Batteries)	Batteries		Batteries			
OEP-215	Engine Oil	6.8 L	Engine			
OEP-70	Engine Oil	6.8 L	Engine			
OM-15	Hydraulic Oil	20 L	Hydraulic System			
OX-38	Engine Oil	6.8 L	Engine			
Oxygen		Nil				
Sonar Locator Beacon(s)	Sonor Beacon	1	On Aircraft			
Weapon Load (if fitted)	Weapon(s)	Mission Variable	Stub Wings			

## AIRCRAFT HAZARDS, BRAKING, MOVING, SECURITY AND LASHING

-YNX MK3. 1. HAZARDS сл

## WARNING

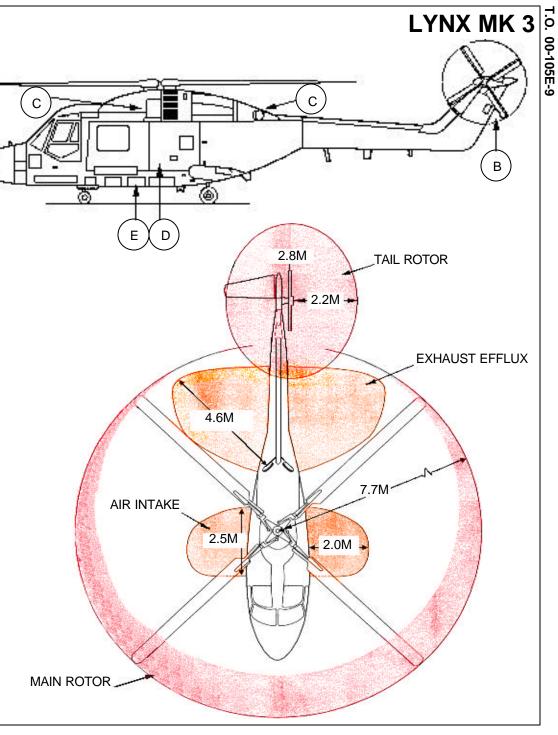
- A Although having a "rigid" rotor, there is still blade sail and swoop to be aware of. NEVER approach the aircraft without permission from the Incident Commander/ Director and pilot.
- B Never approach the aircraft from the tail; always approach within full view of the pilot when cleared to do so by the Incident Commander/Director and pilot.
- C Beware of engine intakes and exhausts.
- D The flotation system is housed internally so does not constitute an external hazard, but can be after entry.
- E Beware of external-fitted weapons, especially Heavy Machine gun Pods (HMPs).
- 2. BRAKING

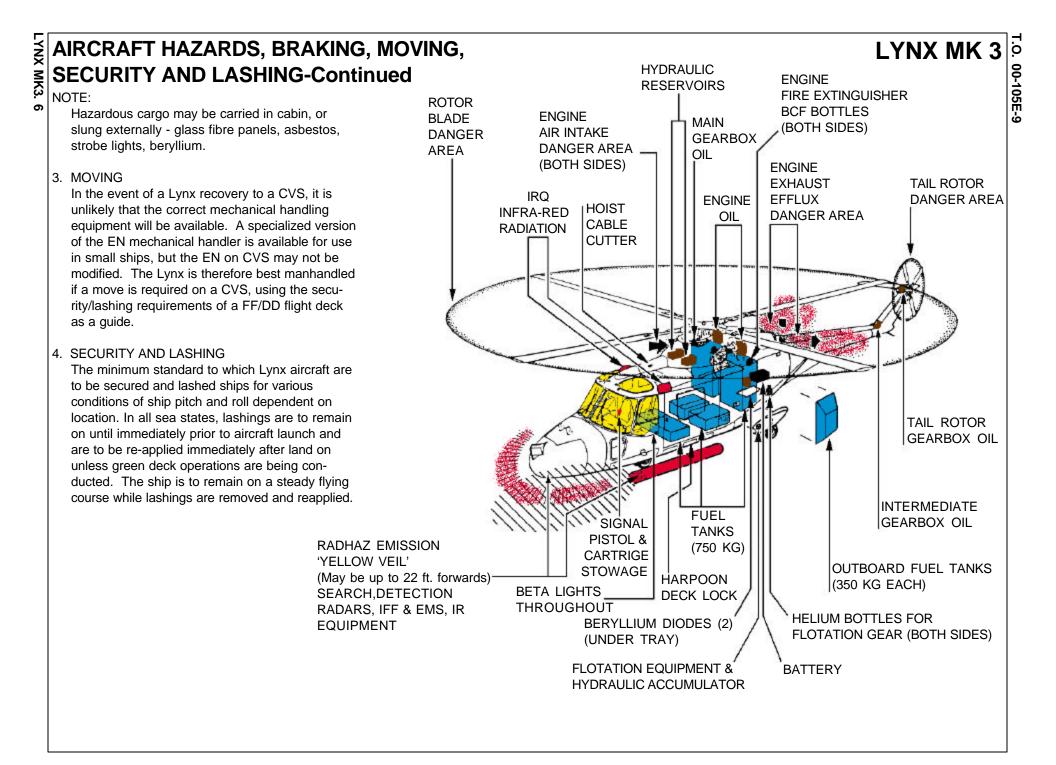
## CAUTION

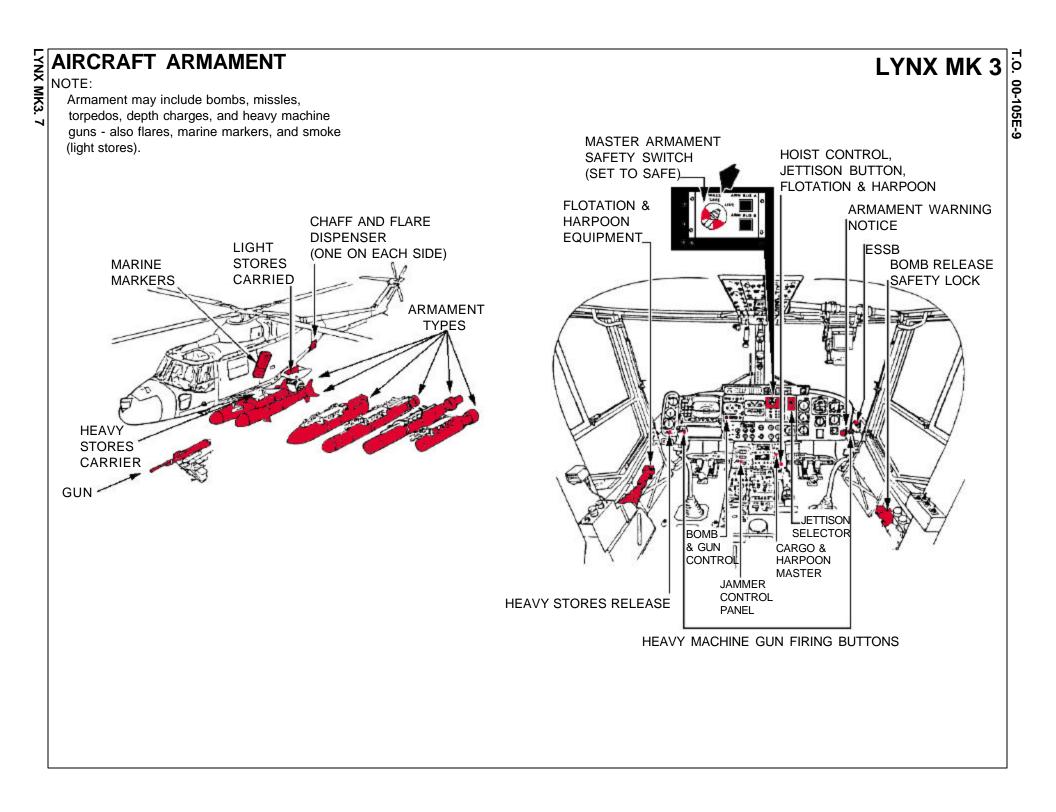
This aircraft is very fragile, only push on the undercarriage, main frames or handholds.

#### NOTE:

There is no normal braking system on this aircraft. A parking brake, comprising a wheel lock arrangement, must never be applied when the aircraft is moving. "Chocks in hand" must be ordered to any move. A brakeman is used to man the cockpit, but is only to apply the parking brake in an extreme emergency.







#### SPECIAL TOOLS/EQUIPMENT Power Rescue Saw Crash Ax

LYNX MK3. 8

### • AIRCRAFT ENTRY

### 1. NORMAL ENTRY

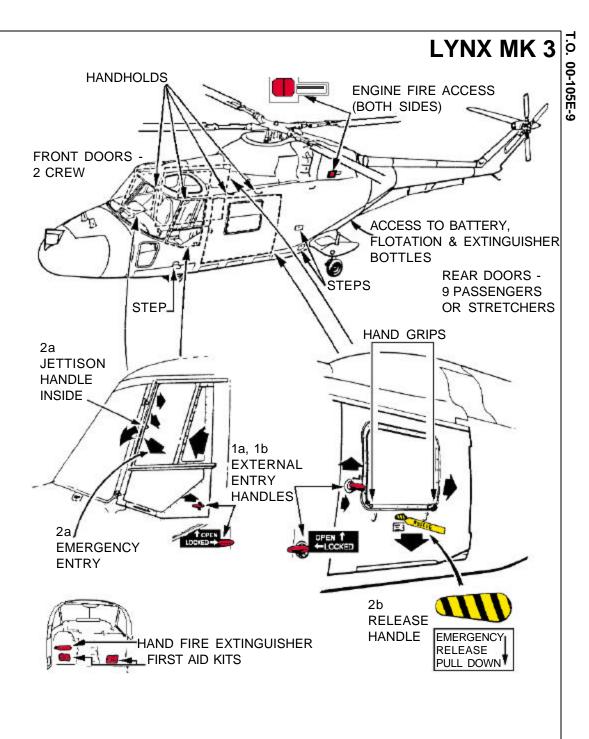
- a. Turn external entry door handles up, pull forward door out and forwards. Slide rear door aft.
- b. To open windows in rear doors, pull down release handle, pull windows outwards. ( A blade may have to be inserted between frame and door.)

## 2. EMERGENCY ENTRY

- a. For forward door, slide window aft, push jettison forward and down. Pull outwards.
- 3. CUT-IN
- a. Cut-in fuselage as required.

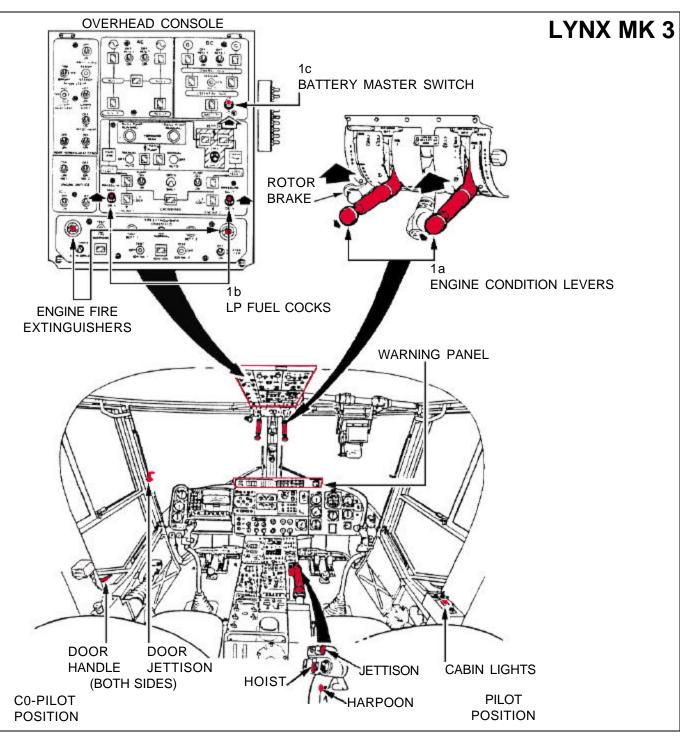
#### NOTE:

Winch in main cabin may be swung out of way by pulling down cord on starboard side.



## LYNX MK3. 9 **ENGINE SHUTDOWN**

- 1. ENGINE SHUTDOWN
- a. Raise engine condition levers, located on overhead control console, UP (aft) to HP COCK OFF postion.
- b. Place LP fuel cocks, located on overhead control console, aft to SHUT position.
- c. Place battery master switch, located on the overhead control console, to OFF position.



## LYNX MK3. **AIRCREW EXTRACTION AND EMERGENCY EXIT DOORS**

1. AIRCREW EXTRACTION

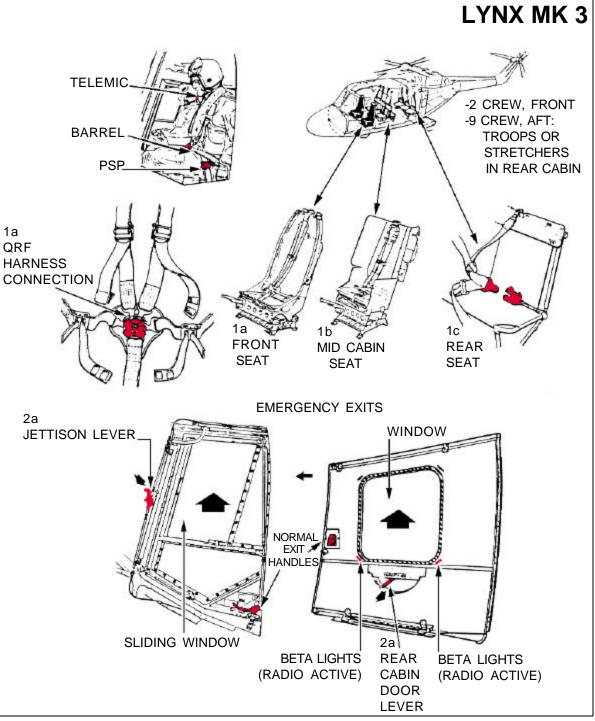
- a. Release crew in forward seats by releasing the QRF harness connection and other associated connections.
- b. Release crew in mid cabin seats by releasing restraint harnesses and other associated connections.
- c. Release crew in rear seats by releasing restraint harnesses and other associated connections.
- 2. EMERGENCY EXIT DOORS

#### NOTE:

6

Exit doors can be jettisoned to make extraction of crewmembers faster.

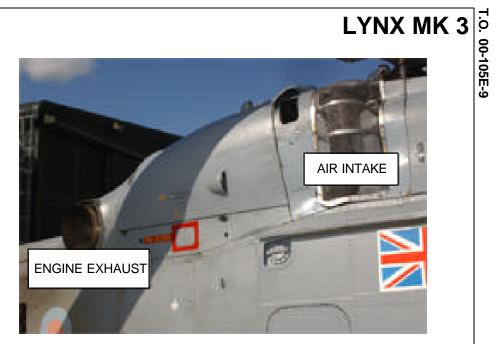
- a. For front doors, push jettison forward and down, then push door out.
- b. For rear cabin doors, push jettison lever, located at bottom center of window, aft, then push window out.



F.O. 00-105E-9

## **AIRCRAFT FAMILIARIZATION**

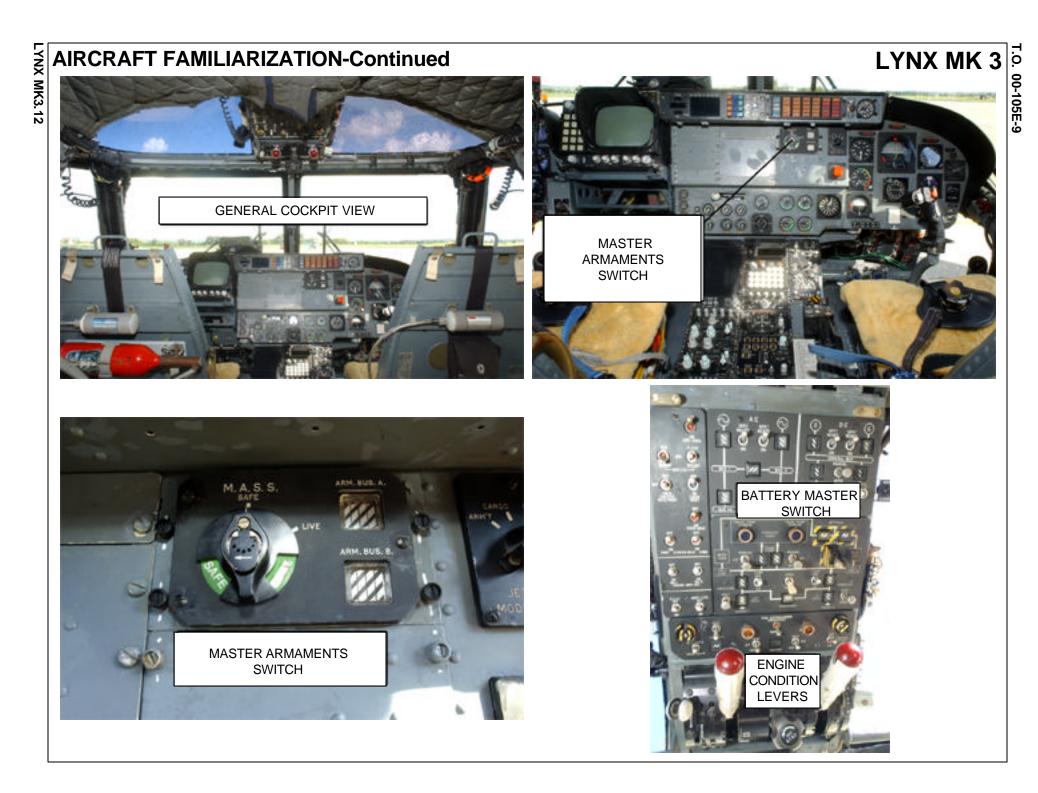












## **AIRCRAFT FAMILIARIZATION-Continued**

LYNX MK3.13

