

APPENDIX M: CRASH-RESCUE DIAGRAMS

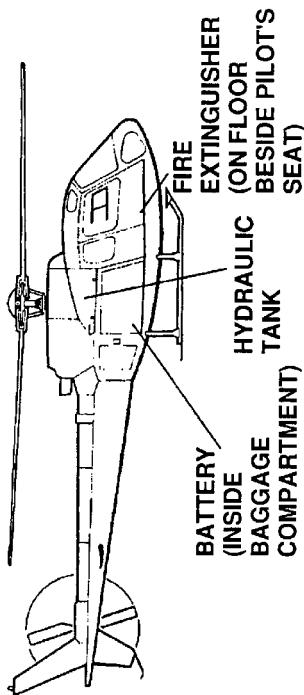
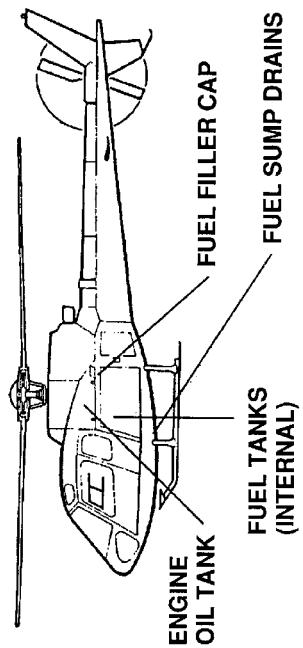
This appendix provides typical diagrams of various makes and models of helicopters. The intent is to provide crash-rescue personnel on helibases or at other locations with general information concerning aircraft layout, emergency ingress and egress, and emergency procedures for fuel and electrical power shutoff.

It is essential that helibase and other personnel with crash-rescue responsibilities, or who may be assigned such responsibilities, receive a briefing by the pilot on the specific characteristics of the helicopter with which they are working.

AEROSPATIALE

CRASH RESCUE

AS 350



LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH

BELL

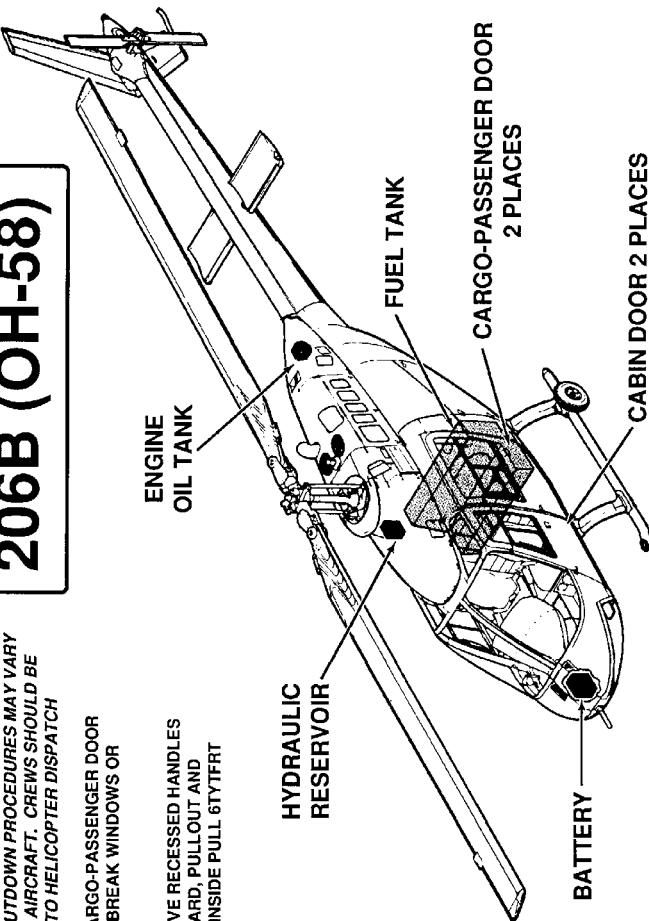
CRA SH RE SCUE

206B (OH-58)

LOCATION OF SWITCHES AND EQUIPMENT AND
EMERGENCY SHUTDOWN PROCEDURES MAY VARY
FOR INDIVIDUAL AIRCRAFT. CREWS SHOULD BE
BRIEFED PRIOR TO HELICOPTER DISPATCH

* IF CABIN OR CARGO-PASSENGER DOOR
FAILS TO OPEN, BREAK WINDOWS OR
WINDSHIELD

* ALL DOORS HAVE RECESSED HANDLES
POINTING FORWARD, PULL OUT AND
BACK OUTSIDE. INSIDE PULL GENTLY
HANDLES UP.



SEE BACK SIDE FOR EMERGENCY SHUTDOWN PROCEDURE

BELL

ENGINE SHUTDOWN & AIRCREW EXTRACTION

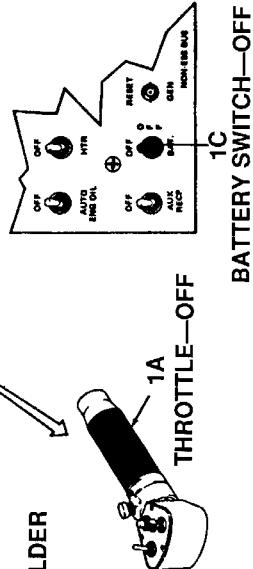
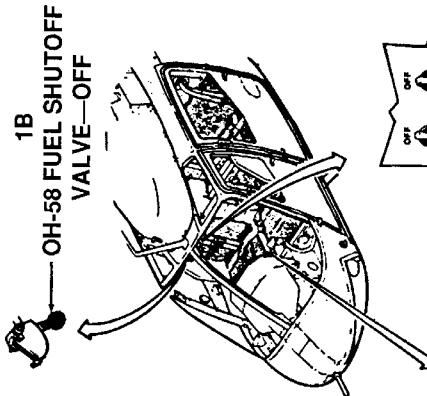
1. ENGINE SHUTDOWN

- A. ROTATE THROTTLE, LOCATED ON PILOT'S COLLECTIVE PITCH STICK, TO OFF POSITION.
- B. OH-58 PULL FUEL SHUTOFF VALVE, LOCATED OVERHEAD IN CREW COMPARTMENT, AFT TO OFF POSITION. 206B TURN FUEL SWITCH ON PANEL TO OFF POSITION.
- C. PLACE BATTERY SWITCH, LOCATED ON OVERHEAD SWITCH PANEL, TO OFF POSITION.

2. AIRCREW EXTRACTION

- A. UNLATCH LAP BELTS AND REMOVE SHOULDER HARNESS FROM CREWMEMBER(S).

206B (OH-58)

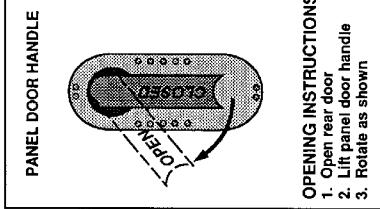
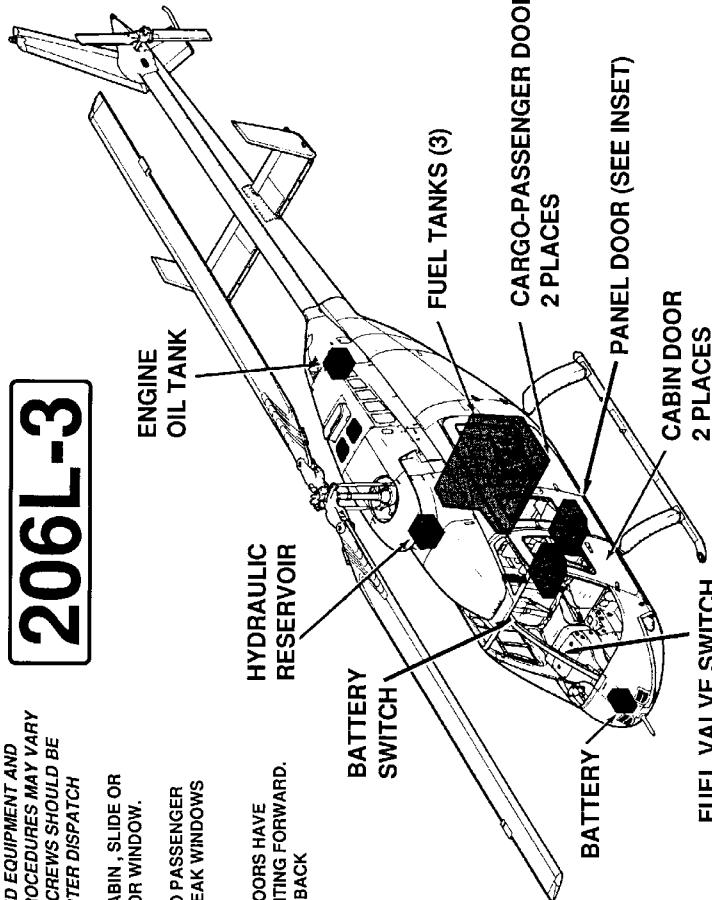


BELL CRASH RESCUE

LOCATION OF SWITCHES AND EQUIPMENT AND
EMERGENCY SHUTDOWN PROCEDURES MAY VARY
FOR INDIVIDUAL AIRCRAFT. CREWS SHOULD BE
BRIEFED PRIOR TO HELICOPTER DISPATCH

206L-3

- TO GAIN ENTRANCE TO CABIN, SLIDE OR BREAK EITHER CABIN DOOR WINDOW.
- IF CABIN DOOR OR CARGO PASSENGER DOOR FAILS TO OPEN, BREAK WINDOWS OR WINDSHIELD
- PILOT AND PASSENGER DOORS HAVE RECESSIVE HANDLES POINTING FORWARD. OUTSIDE—PULL OUT AND BACK INSIDE—PULL UP



- OPENING INSTRUCTIONS
1. Open rear door
 2. Lift panel door handle
 3. Rotate as shown

SEE BACK SIDE FOR EMERGENCY SHUTDOWN PROCEDURES

BELL

CRASH RESCUE PROCEDURES

Emergency Procedure:

1. *Wait until all rotors have stopped.*
2. *Shut off fuel switch located in the instrument panel. It's usually covered by a metal red cover.*
3. *Disconnect battery located on nose of helicopter. Remove front panel, and rotate knob counterclockwise, and disconnect cable from battery.*
4. *Evacuate personnel if necessary.*
5. *Make sure ELT is in the on position, and remove from helicopter. ELT is located in the chin bubble area on the pilots side.*
6. *Remove fire extinguisher. It's located between the two front seats at shoulder level.*
7. *Remove first aid kit. It's located between the two aft facing seats in the rear passenger area.*
8. *If possible, secure the area from outside interference.*

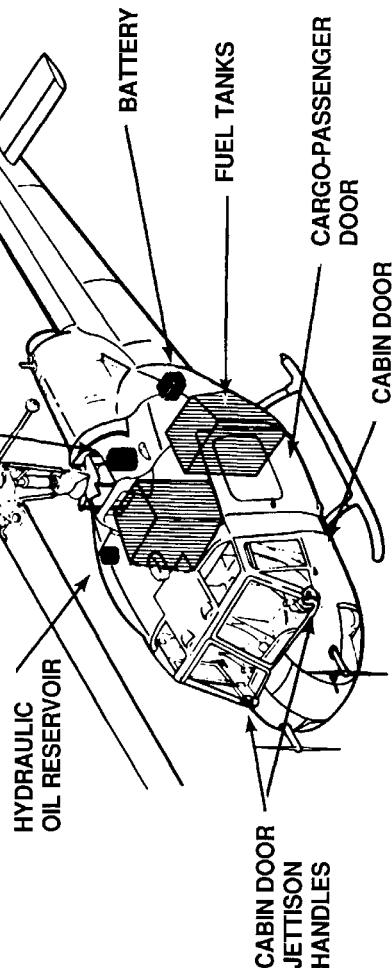
206L-3

BELL CRASH RESCUE

LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH

204B (UH-1A, 1B, 1C)

- TO GAIN ENTRANCE TO CABIN USE EXTERNAL JETTISON HANDLE. IF THIS FAILS, SLIDE OR BREAK EITHER CABIN DOOR WINDOW.
- IF CABIN DOOR OR CARGO PASSENGER DOOR FAILS TO OPEN, BREAK WINDOWS OR WINDSHIELD.



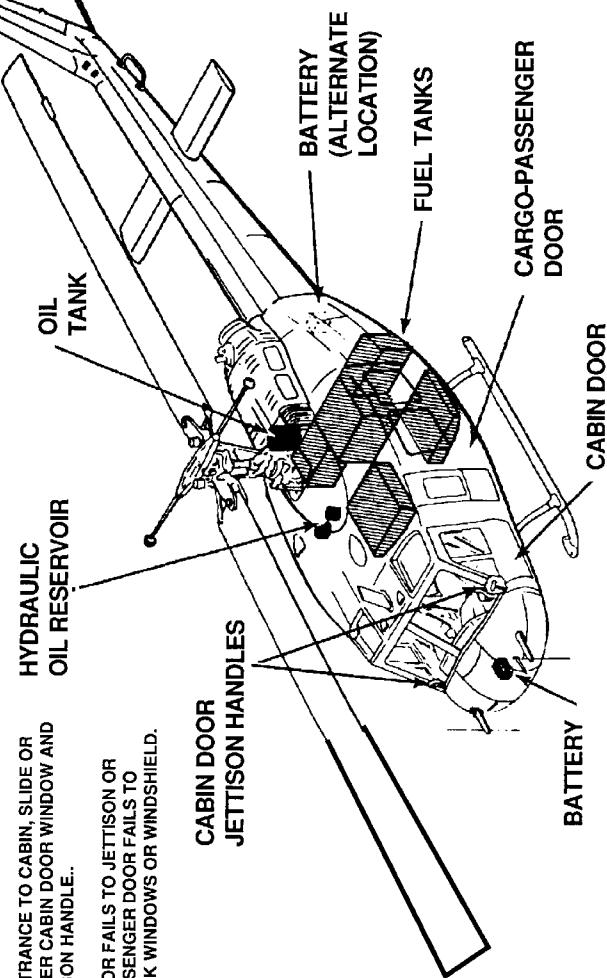
BELL

CRASH RESCUE

LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH.

- TO GAIN ENTRANCE TO CABIN, SLIDE OR
BREAK EITHER CABIN DOOR WINDOW AND
PULL JETTISON HANDLE.
- IF CABIN DOOR FAILS TO JETTISON OR
CARGO-PASSENGER DOOR FAILS TO
OPEN, BREAK WINDOWS OR WINDSHIELD.

205 (UH-1D,-1H)

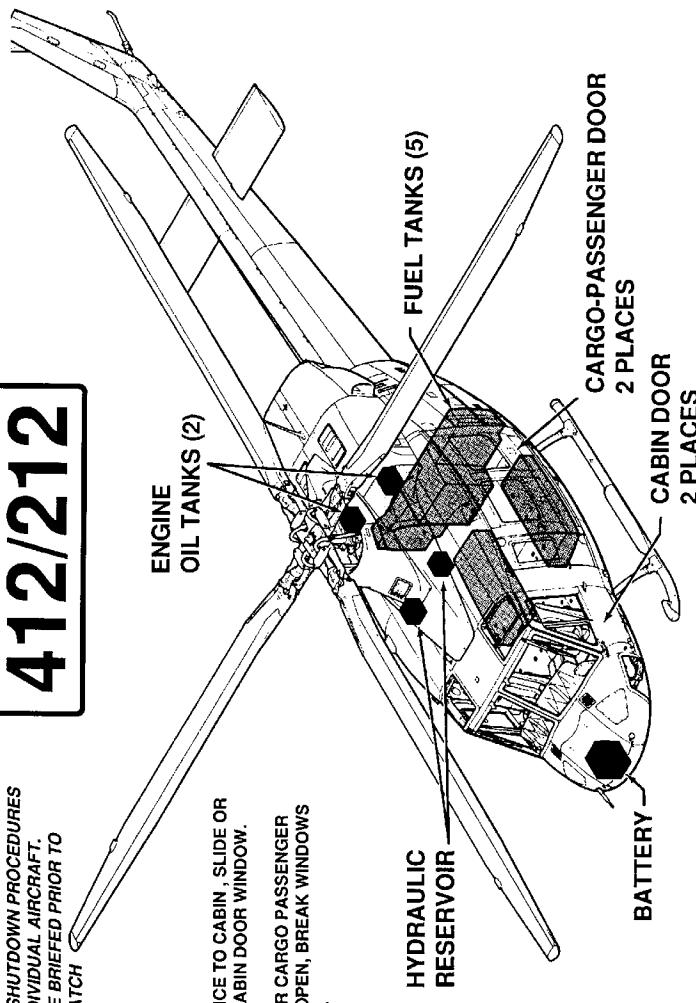


BELL

CRASH RESCUE

LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH

412/212



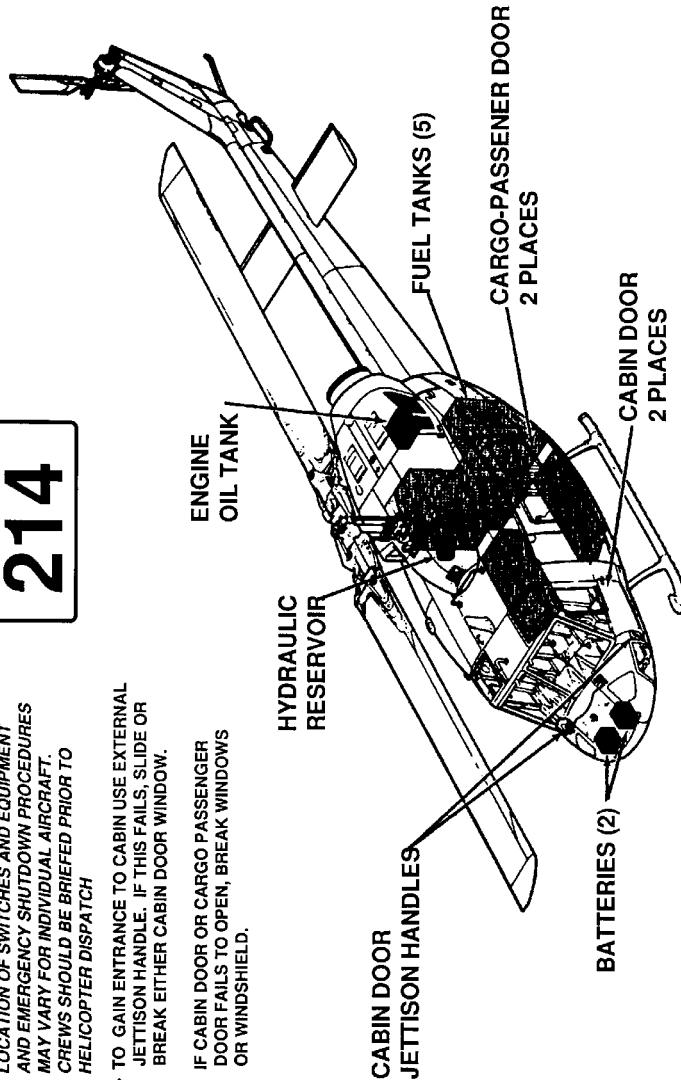
BELL

CRASH RESCUE

LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEfed PRIoR TO
HELIcoPTER DISPaTcH

- TO GAIN ENTRANCE TO CABIN USE EXTERNAL JETTISON HANDLE. IF THIS FAILS, SLIDE OR BREAK EITHER CABIN DOOR WINDOW.
- IF CABIN DOOR OR CARGO PASSENGER DOOR FAILS TO OPEN, BREAK WINDOW OR WINDSHIELD.

214



BELL

CRASH RESCUE

*LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES*

*MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH*

- IF CABIN OR CARGO-PASSENGER
DOOR FAILS TO OPEN, BREAK
WINDOWS OR WINDSHIELD

222

ENGINE OIL TANKS (2)

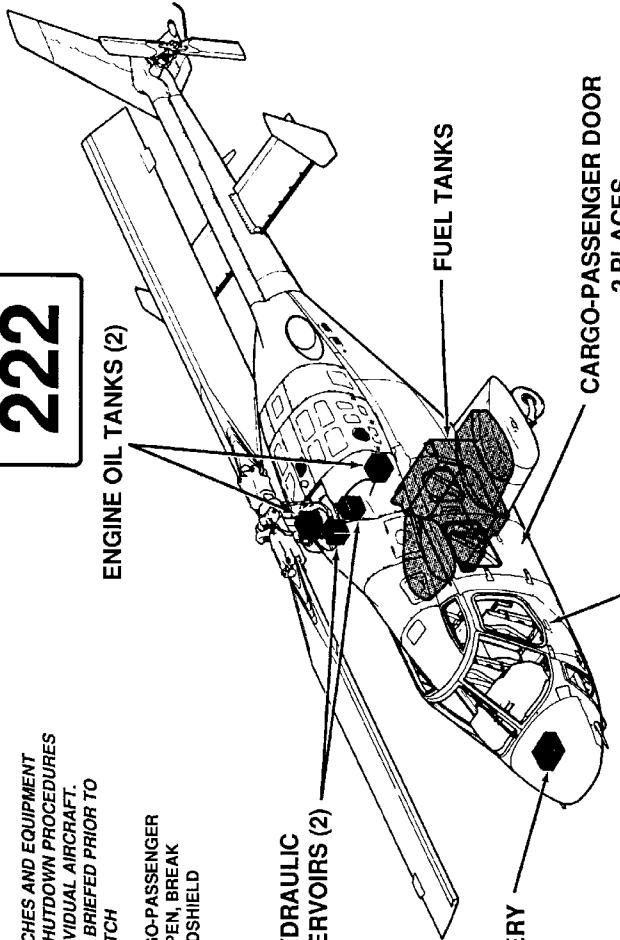
HYDRAULIC
RESERVOIRS (2)

FUEL TANKS

BATTERY

CARGO-PASSENGER DOOR
2 PLACES

CABIN DOOR
2 PLACES



BOEING VERTOL

CRASH RESCUE

LOCATION OF SWITCHES AND EQUIPMENT AND

EMERGENCY SHUTDOWN PROCEDURES MAY VARY
FOR INDIVIDUAL AIRCRAFT. CREWS SHOULD BE

BRIEFED PRIOR TO HELICOPTER DISPATCH

- EMERGENCY ENTRANCE TO COCKPIT IS GAINED
THROUGH JETTISON DOORS BY ACTUATING
HANDLE LABELED DOOR JETTISON PUSH TRIGGER,
TURN HANDLE. IF DOOR DOES NOT FALL AWAY,
PULL AWAY.

- EMERGENCY ENTRANCE TO CARGO COMPARTMENT
IS GAINED THROUGH CABIN DOOR OR UPPER
DOOR ESCAPE HATCH, CABIN ESCAPE HATCH, RAMP
ESCAPE HATCH, AND CUTOUT PANELS. ALL ESCAPE
HATCHES CAN BE OPENED BY PULLING THE YELLOW
TAB OUT AND PUSHING THE PANEL IN.

- AN ACCESS DOOR TO THE CARGO RAMP CONTROL
LEVER IS LOCATED ON RIGHT SIDE OF AIRCRAFT BE-
LOW THE RIGHT ENGINE. RAMP MAY BE LOWERED,
PROVIDING EMERGENCY ENTRANCE, BY PLACING
THE CONTROL LEVER IN THE DOWN POSITION.

- A RESCUE HATCH LOCATED IN FLOOR OF CARGO
COMPARTMENT MAY BE USED FOR EMERGENCY EXIT
IF LOWER RESCUE DOOR HAS BEEN PREVIOUSLY
OPENED.

CH-47

FIRST AID KIT

SEVEN ARE
PROVIDED. ONE IS
LOCATED IN PASSAGeway
BETWEEN COCKPIT AND
CARGO COMPARTMENT.
SIX ARE LOCATED IN CARGO
COMPARTMENT, THREE ON
EACH SIDE.)

HAND FIRE EXTINGUISHER

(THREE ARE PROVIDED.
ONE IS LOCATED IN
COCKPIT FLOOR
TO RIGHT OF PILOTS
SEAT. ANOTHER IS
LOCATED ON
FORWARD
BULKHEAD IN CARGO
COMPARTMENT. ONE
IS LOCATED JUST
FORWARD OF
CARGO RAMP
(ON LH SIDE)

EMERGENCY SHUTDOWN PROCEDURES

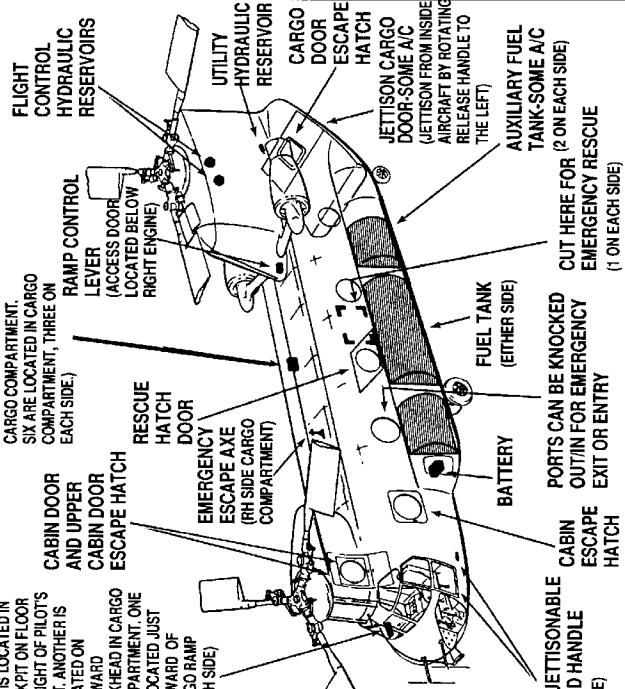
FOR INDIVIDUAL AIRCRAFT. CREWS SHOULD BE
BRIEFED PRIOR TO HELICOPTER DISPATCH

- EMERGENCY ENTRANCE TO COCKPIT IS GAINED
THROUGH JETTISON DOORS BY ACTUATING
HANDLE LABELED DOOR JETTISON PUSH TRIGGER,
TURN HANDLE. IF DOOR DOES NOT FALL AWAY,
PULL AWAY.

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IS GAINED THROUGH CABIN DOOR OR UPPER
DOOR ESCAPE HATCH, CABIN ESCAPE HATCH, RAMP
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- A RESCUE HATCH LOCATED IN FLOOR OF CARGO
COMPARTMENT MAY BE USED FOR EMERGENCY EXIT
IF LOWER RESCUE DOOR HAS BEEN PREVIOUSLY
OPENED.



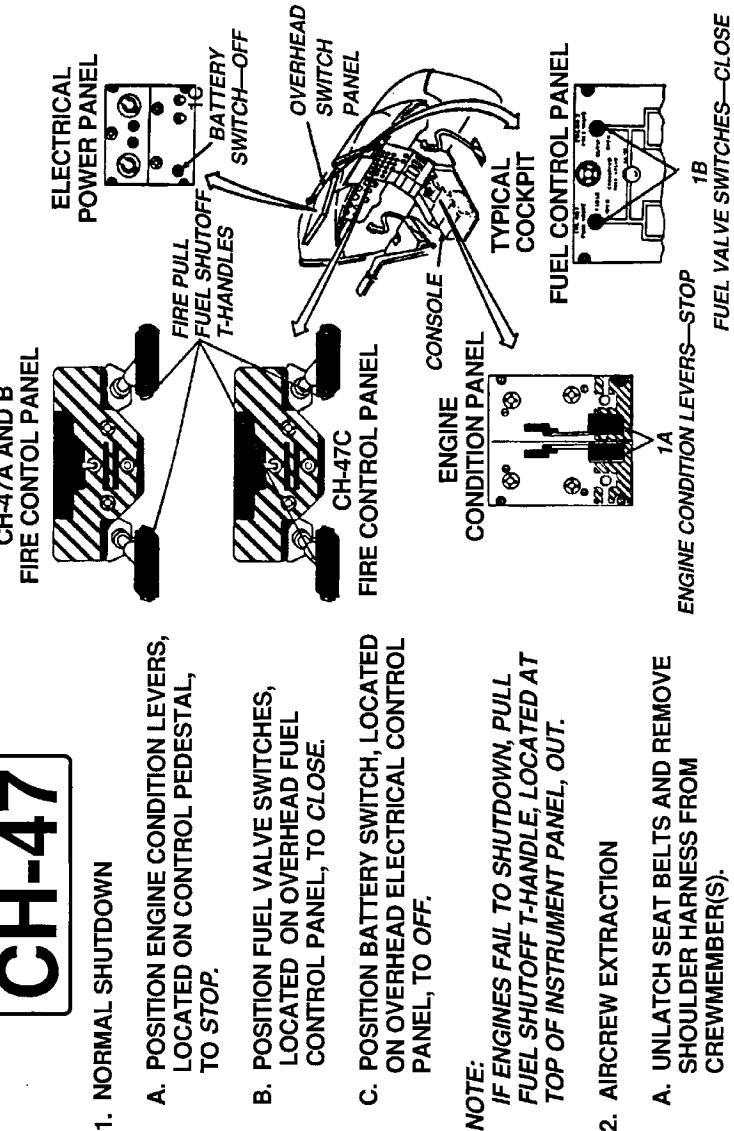
TYPE: TWIN-TURBINE ENGINE TANDEM MOTOR
CREW, NORMAL CONDITIONS: 34
PASSENGERS, FULLY EQUIPPED, GROUND TROOPS
LITTERS, 24 WITH MEDICAL ATTENDANTS/SEATS
STOWAGE: 24 WITH MEDICAL ATTENDANTS/SEATS

SEE BACK SIDE FOR EMERGENCY SHUTDOWN PROCEDURES

**BOEING
VERTOL**

ENGINE SHUTDOWN & AIRCREW EXTRACTION

CH-47

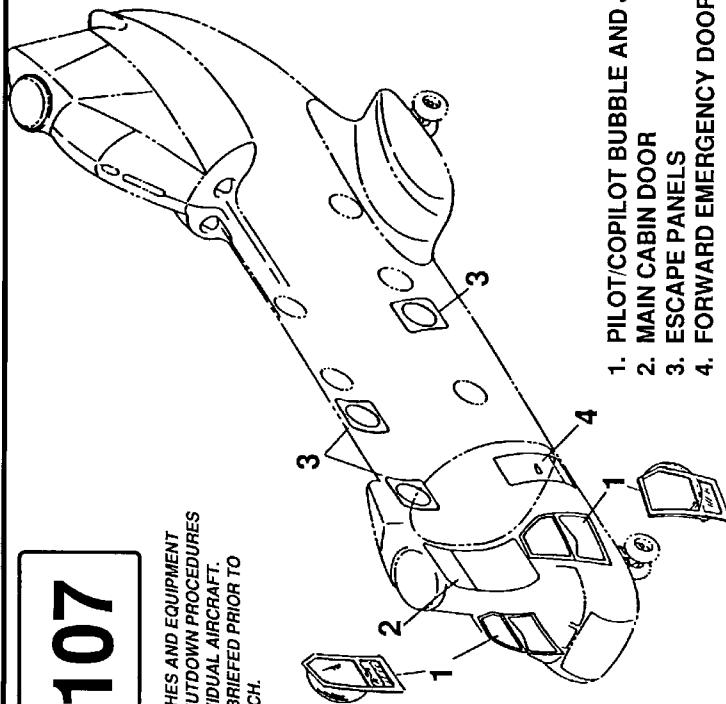


**BOEING
VERTOL**

CRASH RESCUE

BV-107

*LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH.*



1. PILOT/COPILOT BUBBLE AND JETTISON WINDOWS
2. MAIN CABIN DOOR
3. ESCAPE PANELS
4. FORWARD EMERGENCY DOOR

SEE BACK SIDE FOR EMERGENCY SHUTDOWN PROCEDURES

BOEING
VERTOL

EMERGENCY SHUTDOWN PROCEDURE

THE FOLLOWING PROCEDURES WILL BE
FOLLOWED IN THE EVENT OF FIRE OR
OTHER EMERGENCY DURING HOT
REFUELING:

1. FUEL VALVES—CLOSED
2. BOOST PUMPS—OFF
3. ENGINE CONDITION LEVERS (ECLs)—STOP
4. PILOT & COPILOT EMERGENCY DOORS/BUBBLES
— JETTISON

*(CONSIDER LOCATION OF FIRE DUE TO
LOCATION OF REFUELING POINT BEFORE
JETTISONING COCKPIT DOORS.)*

5. AIRCRAFT — EVACUATE
6. FIRE EXTINGUISHER — DIRECT ON FIRE

BV-107

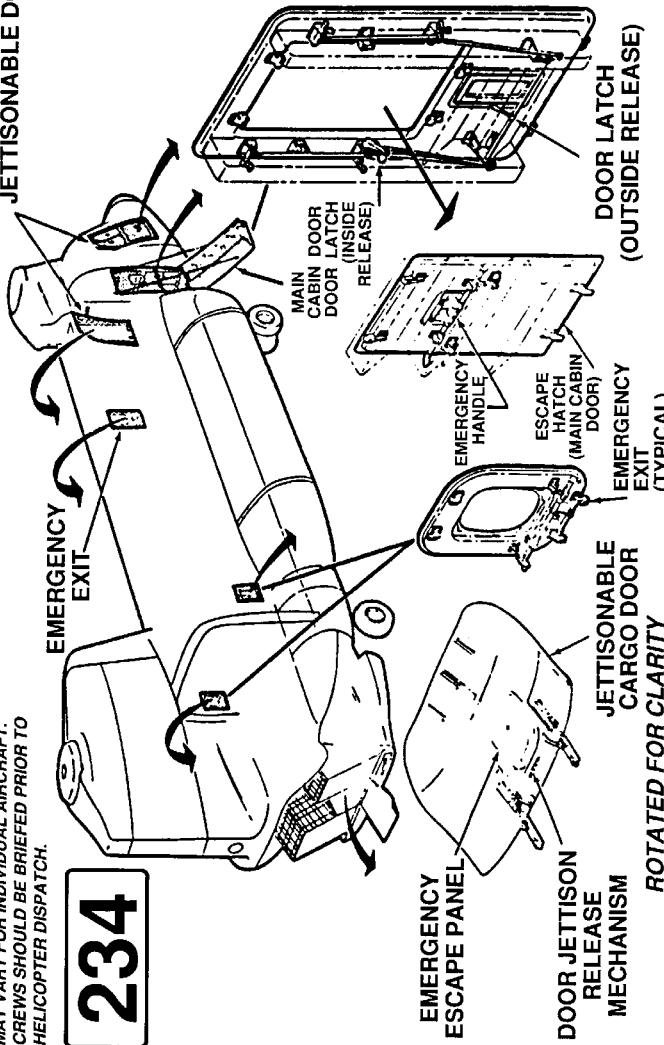
**BOEING
VERTOL**

CRASH RESCUE

LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH.

234

**PILOT AND COPILOTS
JETTISONABLE DOORS**



SEE BACK SIDE FOR EMERGENCY SHUTDOWN PROCEDURES

BOEING
VERTOL

EMERGENCY SHUTDOWN PROCEDURE

THE FOLLOWING PROCEDURES WILL BE
FOLLOWED IN THE EVENT OF FIRE OR OTHER
EMERGENCY DURING HOT REFUELING:

234

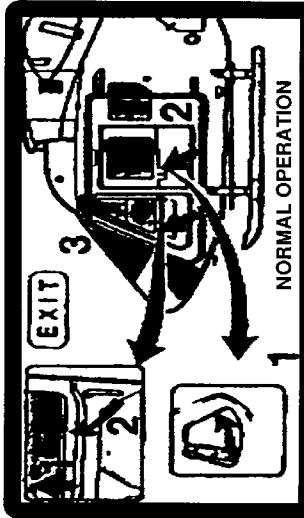
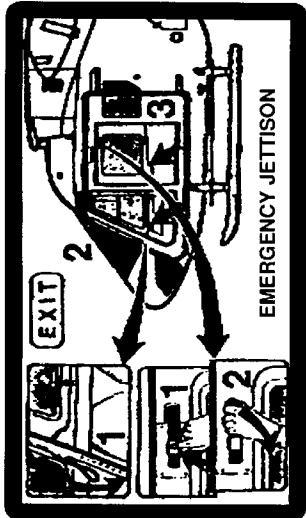
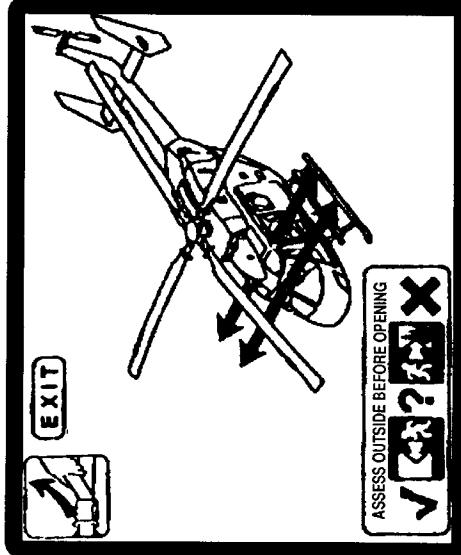
1. ENGINE CONDITION LEVERS (ECLs) — STOP
2. T-HANDLES — PULL
3. BOOST PUMPS — OFF
4. PILOT & COPILOT EMERGENCY DOORS/BUBBLES
— JETTISON
(CONSIDER LOCATION OF FIRE DUE TO LOCATION
OF REFUELING POINT BEFORE JETTISONING
COCKPIT DOORS.)
5. AIRCRAFT — EVACUATE
6. FIRE EXTINGUISHER — DIRECT ON FIRE

EUROCOPTER

CRASH RESCUE

BK-117

LOCATION OF SWITCHES AND EQUIPMENT AND EMERGENCY SHUTDOWN PROCEDURES MAY VARY FOR INDIVIDUAL AIRCRAFT. CREWS SHOULD BE BRIEFED PRIOR TO HELICOPTER DISPATCH.



SEE BACK SIDE FOR EMERGENCY SHUTDOWN PROCEDURES

**EMERGENCY PROCEDURE/
ENGINE FIRE ON GROUND**

EUROCOPTER

BK-117

1. PASSENGERS — ALERT/EVACUATE
2. BOTH EMERGENCY FUEL VALVES — CLOSE
3. BOTH FUEL SUPPLY PUMPS — OFF
4. BOTH POWER LEVERS — OFF
5. BATTERY AND GENERATORS — OFF

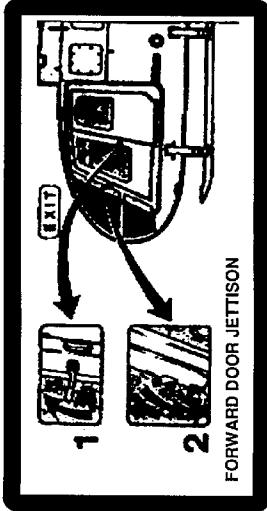
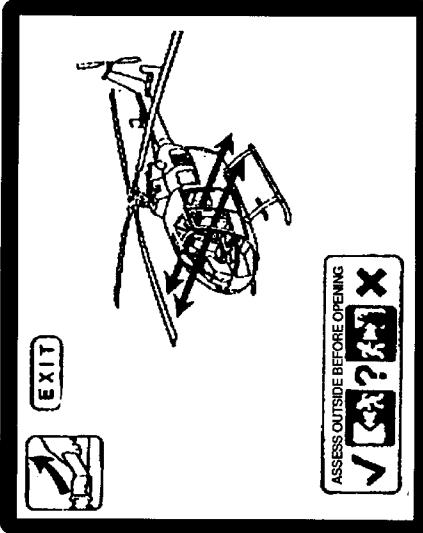
EXTINGUISH FIRE WITH HAND FIRE EXTINGUISHER

EUROCOPTER

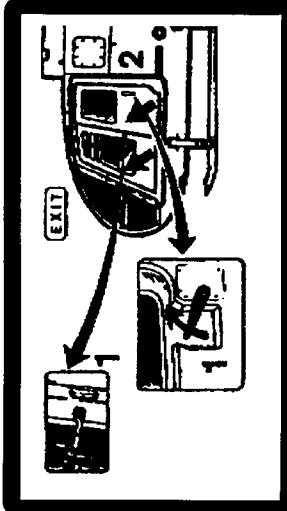
CRASH RESCUE

BO-105

LOCATION OF SWITCHES AND EQUIPMENT AND EMERGENCY
SHUTDOWN PROCEDURES MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO HELICOPTER DISPATCH.



EMERGENCY OPERATION



NORMAL OPERATION

SEE BACK SIDE FOR EMERGENCY SHUTDOWN PROCEDURES

EUROCOPTER

**EMERGENCY PROCEDURE/
ENGINE FIRE ON GROUND**

BO-105

1. PASSENGERS — ALERT/EVACUATE
2. BOTH EMERGENCY FUEL VALVES — CLOSE
3. BOTH FUEL SUPPLY PUMPS — OFF
4. BOTH POWER LEVERS — OFF
5. BATTERY AND GENERATORS — OFF

EXTINGUISH FIRE WITH HAND FIRE EXTINGUISHER

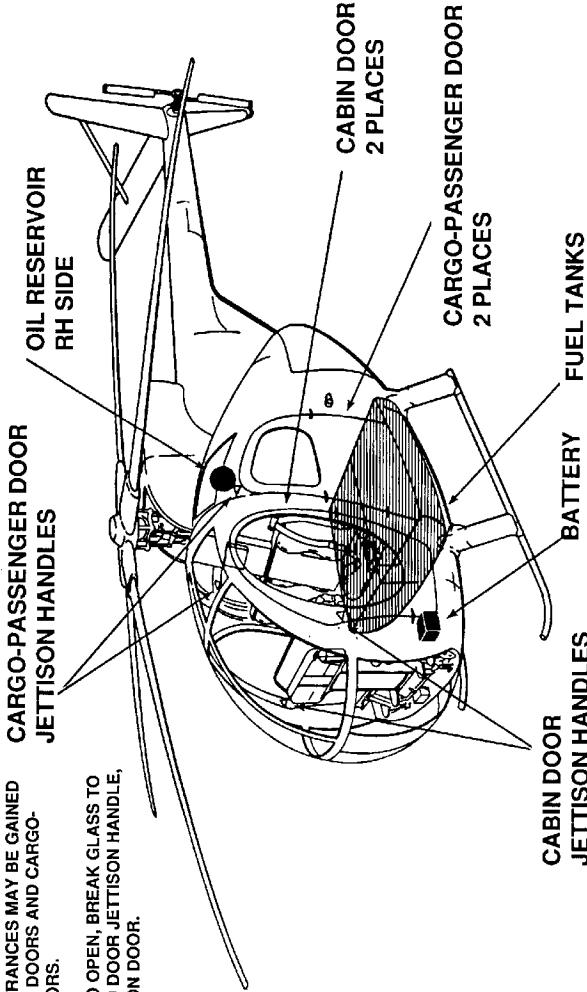
McDONNELL DOUGLAS
(HUGHES)

CRASH RESCUE

LOCATION OF SWITCHES AND EQUIPMENT AND
EMERGENCY SHUTDOWN PROCEDURES MAY VARY
FOR INDIVIDUAL AIRCRAFT. CREWS SHOULD BE
BRIEFED PRIOR TO HELICOPTER DISPATCH.

- EMERGENCY ENTRANCES MAY BE GAINED
THROUGH CABIN DOORS AND CARGO-
PASSENGER DOORS.
- IF DOORS FAIL TO OPEN, BREAK GLASS TO
GAIN ACCESS TO DOOR JETTISON HANDLE;
PULL TO JETTISON DOOR.

500-C,D (OH-6)



McDONNELL DOUGLAS
(HUGHES)

ENGINE SHUTDOWN & AIRCREW EXTRACTION

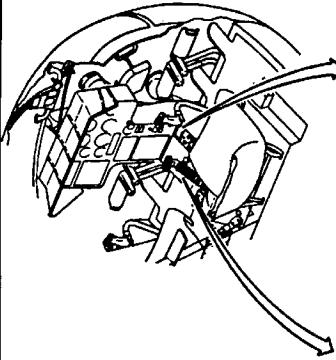
500-C,D (OH-6)

1. ENGINE SHUTDOWN

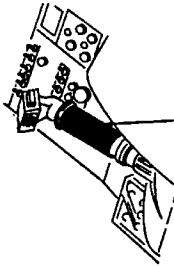
- A. ROTATE THROTTLE CONTROL, LOCATED ON PILOT AND COPILOT COLLECTIVE LEVERS, TO FUEL CUT-OFF POSITION.
- B. PLACE BATTERY SWITCH, LOCATED ON ELECTRICAL CONTROL CONSOLE, TO OFF POSITION.

2. AIRCREW EXTRACTION

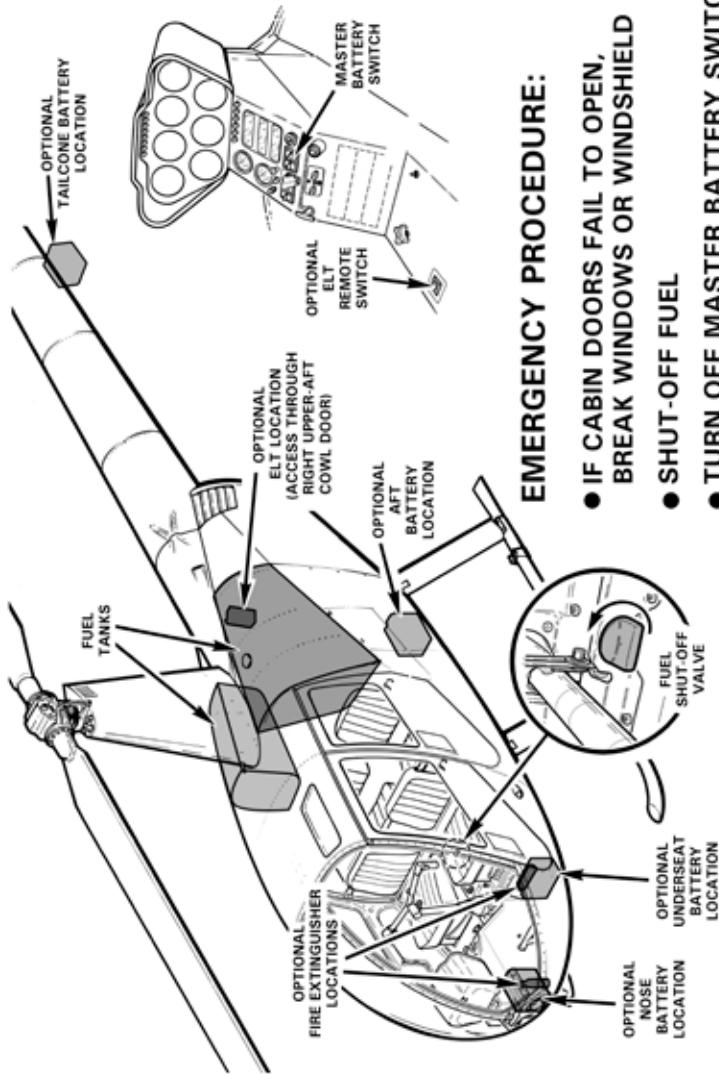
- A. UNLATCH LAP BELT AND REMOVE SHOULDER HARNESS FROM CREWMEMBER(S).



ELECTRICAL CONTROL CONSOLE



ROBINSON MODEL R44 & R44 II CRASH RESCUE DIAGRAM



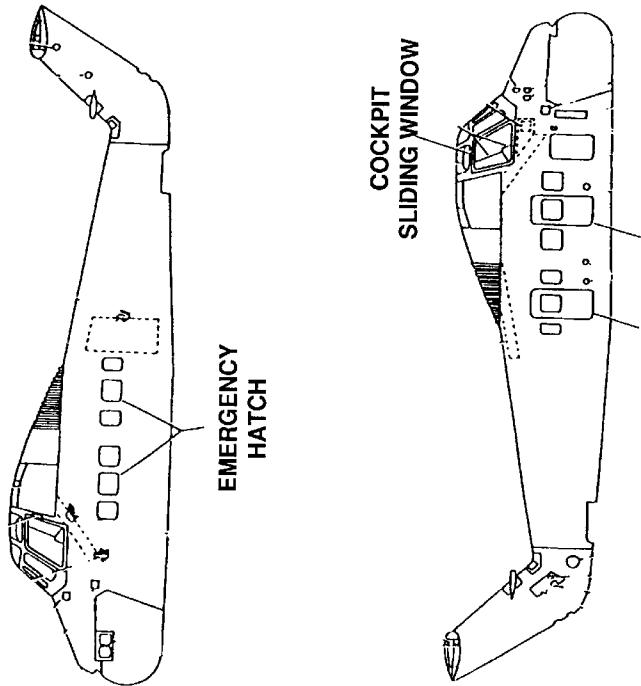
CRASH RESCUE

SIKORSKY

S-58T

LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH.

COCKPIT SLIDING WINDOWS, CARGO DOORS,
PASSENGER DOORS AND EMERGENCY
ESCAPE HATCHES CAN BE JETTISONED BY
PULLING APPROPRIATE EMERGENCY
RELEASE HANDLES.



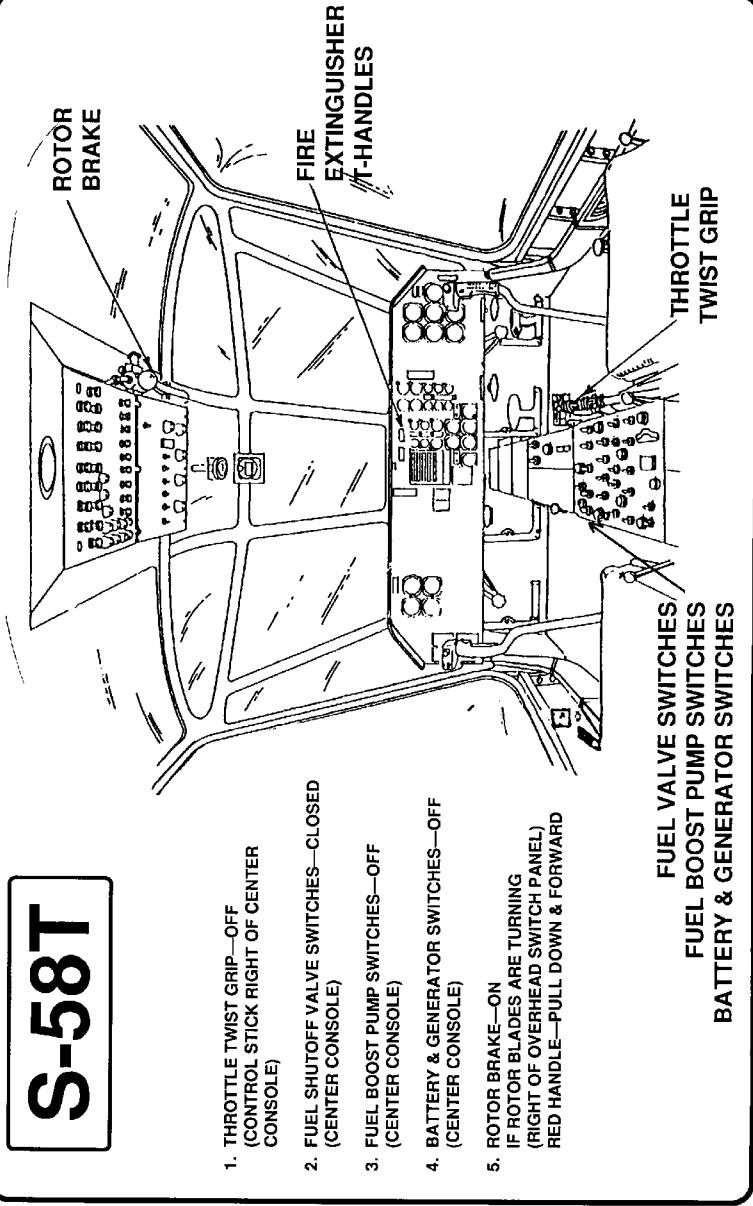
PASSENGER DOORS

SEE BACK SIDE FOR EMERGENCY SHUTDOWN PROCEDURES

SIKORSKY

EMERGENCY SHUTDOWN PROCEDURE

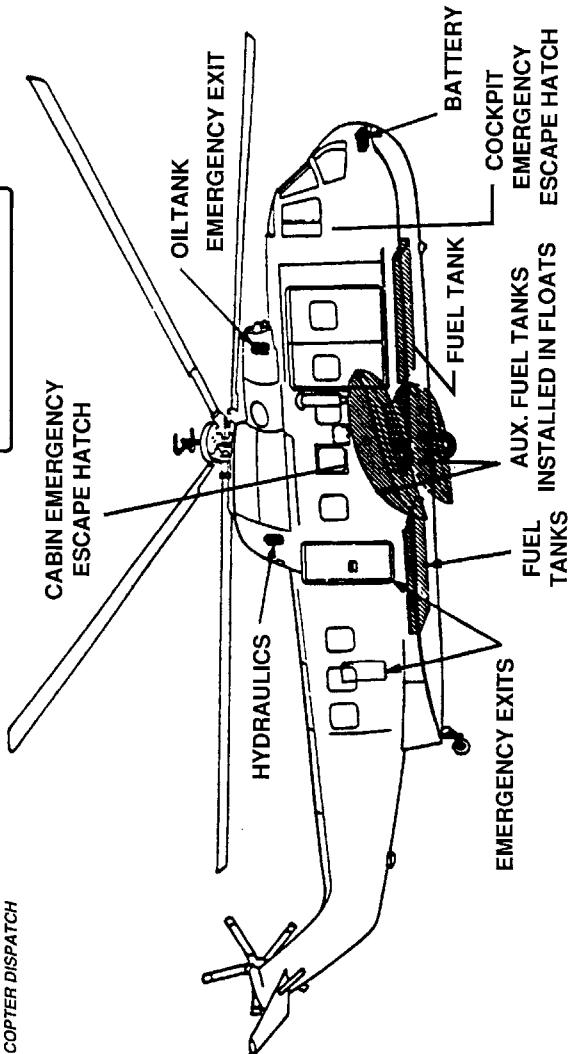
S-58T



SIKORSKY CRASH RESCUE

LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH

S-61N

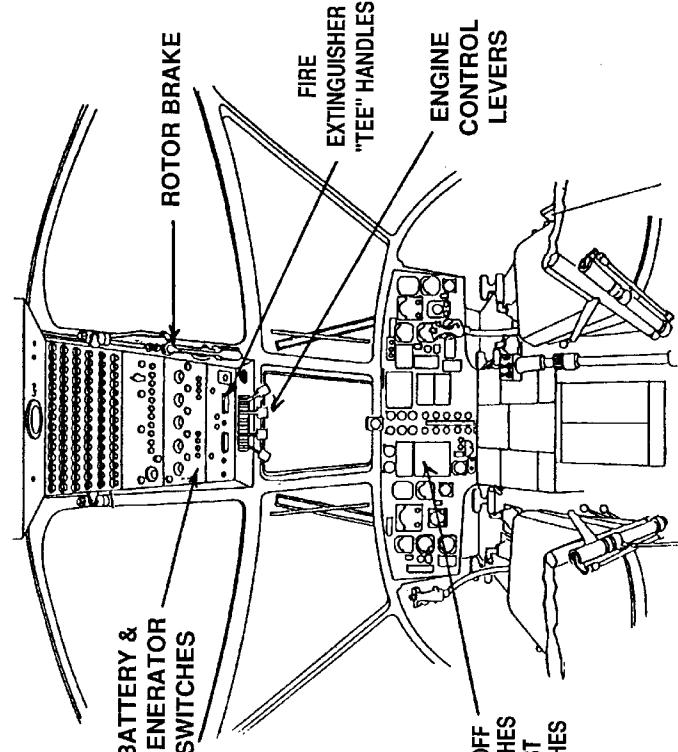


SEE BACKSIDE FOR EMERGENCY SHUTDOWN PROCEDURES

SIKORSKY

ENGINE SHUTDOWN & AIRCRAFT EXTRACTION

S-61N



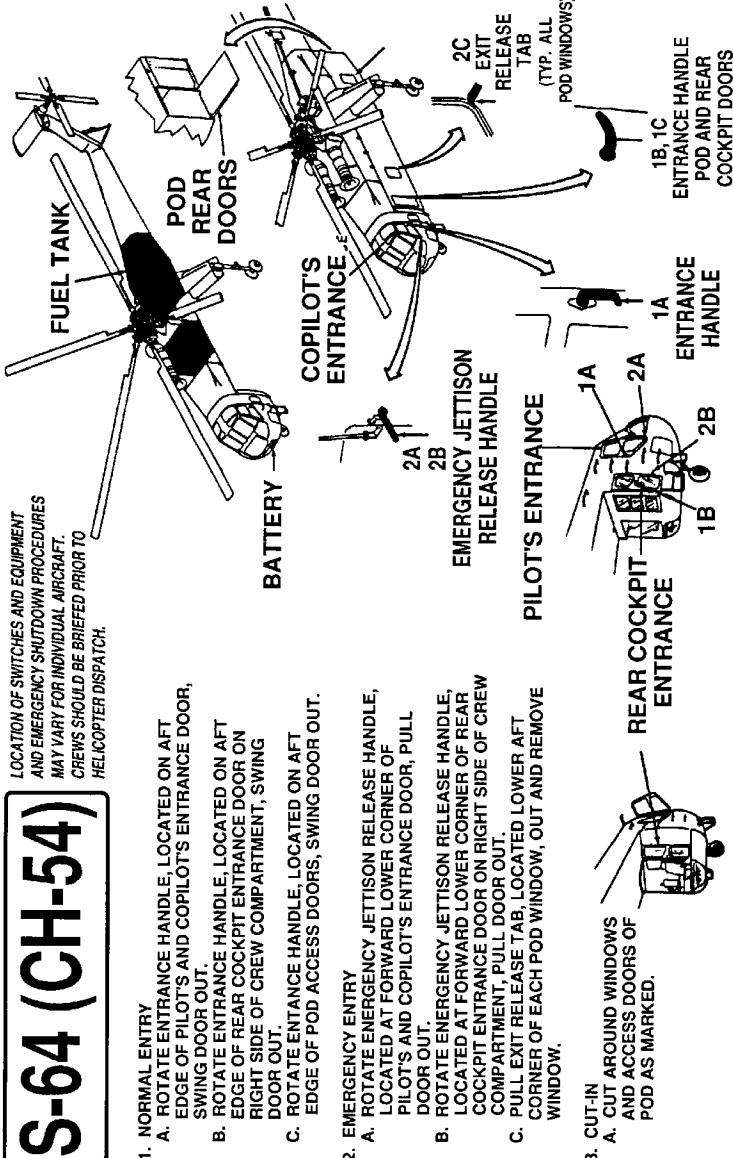
1. ENGINE CONTROL LEVERS—OFF
(CENTER OVERHEAD—FORWARD)
PULL AFT, THEN DOWN TO CLEAR
DETENT AT END OF ARC.
2. FUEL SHUT OFF VALVE SWITCHES—CLOSED
(CENTER OF INSTRUMENT PANEL)
3. FUEL BOOST PUMP SWITCHES—OFF
(CENTER OF INSTRUMENT PANEL)
4. BATTERY & GENERATOR SWITCHES—OFF
(OVERHEAD SWITCH PANEL)
5. ROTOR BRAKE—ON
IF ROTOR BLADES ARE TURNING
(RIGHT OF OVERHEAD SWITCH PANEL)
RED HANDLE—PULL DOWN & FORWARD.

SIKORSKY

CRASH RESCUE

S-64 (CH-54)

LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH.



1. NORMAL ENTRY

- ROTATE ENTRANCE HANDLE, LOCATED ON AFT EDGE OF PILOTS AND COPILOTS ENTRANCE DOOR, SWING DOOR OUT.
- ROTATE ENTRANCE HANDLE, LOCATED ON AFT EDGE OF REAR COCKPIT ENTRANCE DOOR ON RIGHT SIDE OF CREW COMPARTMENT, SWING DOOR OUT.
- ROTATE ENTRANCE HANDLE, LOCATED ON AFT EDGE OF POD ACCESS DOORS, SWING DOOR OUT.

2. EMERGENCY ENTRY

- ROTATE EMERGENCY JETTISON RELEASE HANDLE, LOCATED AT FORWARD LOWER CORNER OF PILOTS AND COPILOTS ENTRANCE DOOR, PULL DOOR OUT.
- ROTATE EMERGENCY JETTISON RELEASE HANDLE, LOCATED AT FORWARD LOWER CORNER OF REAR COCKPIT ENTRANCE DOOR ON RIGHT SIDE OF CREW COMPARTMENT, PULL DOOR OUT.
- PULL EXIT RELEASE TAB, LOCATED LOWER AFT CORNER OF EACH POD WINDOW, OUT AND REMOVE WINDOW.

3. CUT-IN

- CUT AROUND WINDOWS AND ACCESS DOORS OF POD AS MARKED.

SIKORSKY

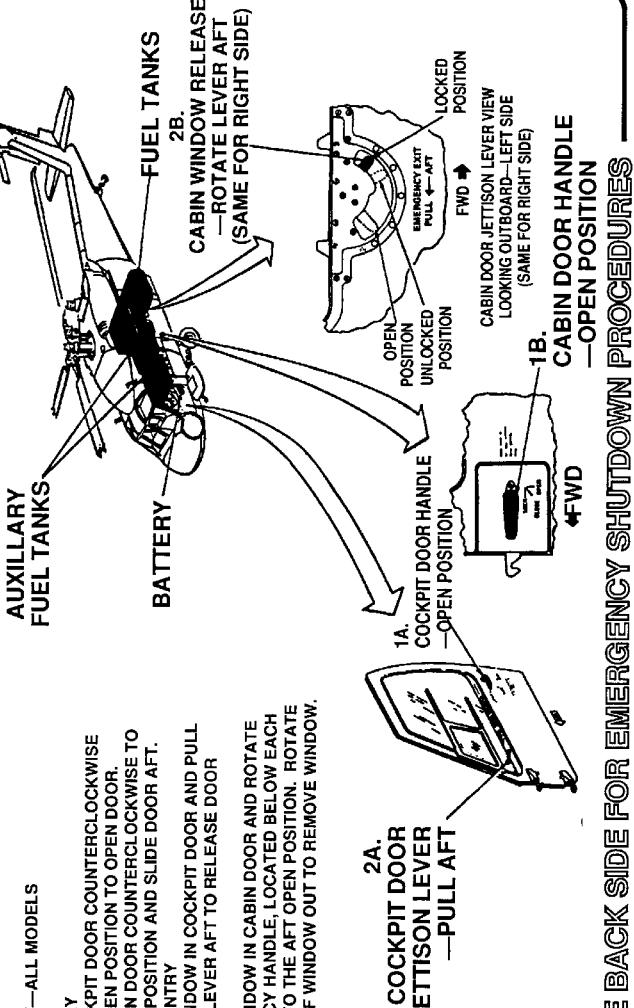
CRASH RESCUE

**LOCATION OF SWITCHES AND EQUIPMENT
AND EMERGENCY SHUTDOWN PROCEDURES
MAY VARY FOR INDIVIDUAL AIRCRAFT.
CREWS SHOULD BE BRIEFED PRIOR TO
HELICOPTER DISPATCH.**

AIRCRAFT ENTRY—ALL MODELS

1. **NORMAL ENTRY**
 - A. TURN COCKPIT DOOR COUNTERCLOCKWISE TO THE OPEN POSITION TO OPEN DOOR.
 - B. TURN CABIN DOOR COUNTERCLOCKWISE TO THE OPEN POSITION AND SLIDE DOOR AFT.
2. **EMERGENCY ENTRY**
 - A. BREAK WINDOW IN COCKPIT DOOR AND PULL JETTISON LEVER AFT TO RELEASE DOOR HINGES.
 - B. BREAK WINDOW IN CABIN DOOR AND ROTATE EMERGENCY HANDLE, LOCATED BELOW EACH WINDOW, TO THE AFT OPEN POSITION. ROTATE BOTTOM OF WINDOW OUT TO REMOVE WINDOW.

S-70 (UH-60A)



SIKORSKY ENGINE SHUTDOWN & AIRCREW EXTRACTION

S-70 (UH-60A)

1. ENGINE SHUTDOWN

NOTE: TO ACTIVATE THE INSTALLED FIRE EXTINGUISHING SYSTEM, ONE (1) HANDLE MUST BE PULLED. AGENT IS DISCHARGED TO LAST (1) HANDLE PULLED. THEN REPOSITION THE FIRE EXTINGUISHER SWITCH FROM OFF TO MAIN OR RESERVE.

BATTERY SWITCH MUST BE IN THE ON POSITION.

- PULL ENGINE EMERGENCY (1) HANDLES, LOCATED ON CONTROL QUADRANT, FULL AFT.
- PULL APU (1) HANDLE LOCATED ON UPPER CONSOLE, DOWN.
- PLACE BATTERY SWITCH, LOCATED ON UPPER CONSOLE, TO THE OFF POSITION.

NOTE: ALL AIRCREW SEATS HAVE A COMPLETE LAP BELT AND DUAL TORSO RESTRAINT SHOULDER HARNESS ATTACHED TO A ROTARY RELEASE BUCKLE.

ALL TROOP SEATS HAVE A LAP BELT AND SHOULDER HARNESS ATTACHED TO A ROTARY RELEASE BUCKLE.

