Flight safety is the first priority for Airbus Helicopters. In line with our constant commitment to improving the safety of your operations, we are providing you with this new Ground Rescue Booklet for EC225 helicopters. This booklet, which was developed in collaboration with the EC225 operators, will give you additional information in order to adapt your Emergency Response Plans (ERP) within the scope of your Safety Management System (SMS). We would like to point out that this document covers a generic configuration which may be different from the specific configurations of your helicopters.

This booklet will initially be issued in English only and will not be subject to systematic updating. Dedicated versions will be prepared for other helicopters from the Airbus Helicopters range. These booklets will be made available free of charge on the Airbus Helicopters website, in order to be used by fire fighters and rescue teams around the world.
EC225

Emergency off and rescue from helicopter

IMPORTANT NOTE

This Ground rescue booklet provided by Airbus Helicopters gives general and safety information on the EC225. This document shall only be considered as a support for users to elaborate their own documentation. It will not be systematically updated according to aircraft modification process. Depending on the country and the modification of the helicopter, systems may differ in their location.

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CONTENTS

1 GENERAL INFORMATION .................................................................................. 3
   MAXIMUM GROSS WEIGHT .................................................................................. 3
   OCCUPANCY ......................................................................................................... 3
   DIMENSIONS .......................................................................................................... 3
   POWERPLANTS ........................................................................................................ 4
   FUEL CAPACITY ...................................................................................................... 4
   EXTERNAL FORWARD LUGGAGE CASES or EXTERNAL FORWARD FUEL TANKS (option) .......................................................... 4
   OIL CAPACITY ........................................................................................................ 5
   HYDRAULIC FLUID CAPACITY .............................................................................. 5
   COMPOSITE USAGE ............................................................................................... 6

2 SAFETY INFORMATION - OUTSIDE THE AIRCRAFT ...................................... 7
   DANGER AREA WITH ROTOR TURNING .................................................................. 7
   EMERGENCY FLOATATION GEAR ........................................................................ 7
   PITOTS .................................................................................................................... 8
   LUGGAGE HOLD ..................................................................................................... 8
   FIREFIGHTING RECOMMENDATIONS .................................................................. 9
      GENERAL ............................................................................................................ 9
      FIRE AROUND THE AIRCRAFT ......................................................................... 9
      FIRE IN THE FRONT COMPARTMENT ................................................................ 9
      FIRE IN THE ENGINE COMPARTMENT .............................................................. 10
      FIRE IN THE MAIN GEAR BOX (MGB) COMPARTMENT .................................... 11
      FIRE IN THE LUGGAGE HOLD ........................................................................... 12
   EMERGENCY ACCESS ............................................................................................ 13
      COCKPIT DOORS .................................................................................................. 13
      WINDOWS ........................................................................................................... 13
      CABIN DOORS .................................................................................................... 14

3 SAFETY INFORMATION - INSIDE THE AIRCRAFT ...................................... 15
   COCKPIT LAYOUT .................................................................................................... 15
   GENERAL CUT-OUT HANDLES ............................................................................ 16
   ELECTRICAL SHUTDOWN ..................................................................................... 16
   BATTERY ................................................................................................................. 16
   ENGINE SHUTDOWN ............................................................................................... 17
   ROTOR BRAKING .................................................................................................... 17
   ENGINE FIRE DETECTION AND EXTINGUISHING SYSTEM .............................. 18
   PROCEDURE IN CASE OF ENGINE FIRE DETECTION ........................................ 19
   SAFETY BELTS ....................................................................................................... 19
1 GENERAL INFORMATION

MAXIMUM GROSS WEIGHT ..................................................... 11000 kg

OCCUPANCY  - One pilot or two pilots
             - Executive: ........................................... up to 12 passengers
             - Commercial: ................ up to 24 passengers +1 steward
             - OFFSHORE: ............... 2 pilots + up to 19 passengers

DIMENSIONS

Fuselage length: ................................................................. 16.79 m
Fuselage width: ................................................................. 3.96 m
Overall with rotors: .......................................................... 19.50 m
Rotor diameter: ................................................................. 16.20 m
POWERPLANTS .................................................. MAKILA 2A/2A1 turbine (two)

FUEL CAPACITY .............................................................. Up to 3508 litres

EXTERNAL FORWARD LUGGAGE CASES or EXTERNAL FORWARD FUEL TANKS (option)

The external forward luggage cases are normally key-locked during the flight.

NOTE: The configuration consists of two luggage cases or two fuel tanks. There is no mixed configuration.
OIL CAPACITY

Engine oil ............................................................................................. 7.60 l
Main Transmission .............................................................................. 21.40 l
Intermediate gear box ....................................................................... 0.62 l
Tail gear box ...................................................................................... 1.44 l

HYDRAULIC FLUID CAPACITY

RH hydraulic tank: up to 7.5l
LH hydraulic tank: up to 12.0l

(RH/LH = Right Hand side/Left Hand side)
1 - Air intake sliding cowling
2 - Engine firewall
3 - Engine cowling
4 - Transmission deck
5 - Main Gear Box sliding cowling
6 - Upper structure
7 - Tail rotor drive shaft fixed cowling
8 - Tail rotor drive shaft opening fairings
9 - Tail Gear Box fairing
10 - Pylon fairings
11 - Horizontal stabilizer
12 - Tail skid (steel)
13 - Lower fin
14 - Tail boom
15 - Intermediate structure
16 - Loading hatch
17 - Cabin door (RH door opposite hand)
18 - Cabin floor
19 - Landing gear fairing
20 - Footsteps
21 - Hydraulic line protective channel
22 - Bottom structure
23 - Fuel tank compartment trimming
24 - Cockpit floor
25 - Radome
26 - Copilot's door (Pilot's door opposite hand)
27 - Canopy
28 - Forward fixed fairing (cockpit roof)
2 SAFETY INFORMATION - OUTSIDE THE AIRCRAFT

**AIRCRAFT MAY BE CHARGED WITH STATIC ELECTRICITY. USE GLOVES AND IF POSSIBLE DISCHARGE THE AIRCRAFT BY ESTABLISHING AN ELECTRICAL GROUNDING.**

**DANGER AREA WITH ROTOR TURNING**

**TAIL ROTOR HEIGHT: ........................................ Low point 1.85 m**

**EMERGENCY FLOATATION GEAR**

**FRONT/SPONSON BALOONS MAY INFLATE.**
PITOTS

PITOTS ARE HEATED IN FLIGHT AND CAN CAUSE BURNS.

![Image of a helicopter with highlighted PITOTS]

LUGGAGE HOLD

DUE TO THE VICINITY OF THE TAIL ROTOR DO NOT TRY TO OPEN THE STAIRWAY DOOR WHEN THE ROTOR IS SPINNING.

The stairway door of the luggage hold can be opened using the exterior door handle. The luggage hold is equipped with smoke and fire detection.
FIREFIGHTING RECOMMENDATIONS

GENERAL

1) GROUND STAFF MUST BE IN CONTACT (RADIO / VISUAL SIGNS) WITH THE AIRCREW IN ORDER TO COORDINATE AND SECURE THE INTERVENTION.
2) GROUND STAFF MUST WEAR ADEQUATE PROTECTIVE EQUIPMENT.

FIRE AROUND THE AIRCRAFT

If possible wait for the rotor full stop.

FUEL LEAKAGE ALONG THE AIRCRAFT STRUCTURE AND/OR PRESENCE OF FIRE SPILL ON GROUND MUST BE FOUGHT FIRST WITH FOAM.

- Cool with foam or water spray external adjacent structures.

FIRE IN THE FRONT COMPARTMENT

- Slowly open the front compartment (Radome) cowling to avoid a sudden supply of oxygen and a flash-over.
- Saturate the compartment with the extinguishing agent (gaseous extinguisher recommended).
FIRE IN THE ENGINE COMPARTMENT

1) WAIT FOR ENGINES AND ROTOR FULL STOP.
2) THE TEMPERATURE OF THE ENGINE EXHAUST NOZZLE COULD BE VERY HOT (UP TO 600°C).

- Spray the extinguishing agent (gaseous extinguisher recommended) directly inside the turbine by the engine exhaust nozzle.
- Proceed by circular movements until saturation.
FIRE IN THE MAIN GEAR BOX (MGB) COMPARTMENT

WAIT FOR ENGINES AND ROTOR FULL STOP.

Possible ways

MGB compartment

Specific access hatch to MGB compartment only on the LH side of MGB cowlings
Kept closed by a spring
Push to open and insert the extinguisher

- Spray the extinguishing agent through the easier available way (gaseous extinguisher recommended) for saturating the MGB compartment. Do not try to open the cowlings.
- In case of severe flash-over, use foam.
FIRE IN THE LUGGAGE HOLD

REMINDER: DO NOT TRY TO OPEN THE LUGGAGE HOLD WITH THE ROTORS SPINNING.

Fight fire using specific holes on the rear bulkhead indicated by the following placards:

- It is recommended to fight the fire from inside the cabin through the fire extinguishing orifices.
- Saturate the luggage hold with the extinguishing agent (gaseous extinguisher recommended).
EMERGENCY ACCESS

COCKPIT DOORS

Doors can be jettisoned by actuating the jettison lever, secured by a leaf spring and protected by a breakable transparent cover. It causes the door to fall away. It can be operated from the outside by the outside handle.

WINDOWS

Fixed windows (including the ones of the sliding doors) are jettisonable from inside or outside by pushing out strongly after removing the seal-retaining strip.

Sliding windows are jettisonable:
- From inside by pushing out strongly after removing the seal-retaining strip.
- From outside by removing the seal-retaining strip then the second window-retaining strip.

Bubble windows are bonded to the internal structure and cannot be jettisoned.
CABIN DOORS

DO NOT SLIDE THE DOOR IN CASE OF SOMEONE IS COMING OUT OF A FORWARD WINDOW.

The doors can be jettisoned from two points on the aircraft:
- An actuating handle (2) located next to each door inside the cabin.
- Another jettison handle (3) accessible from the outside of the aircraft.

These two actuating handles are protected by breakable transparent covers.

Two other optional handles (1) can be provided behind the pilot and copilot seats, on the cockpit bulkhead.
3 SAFETY INFORMATION - INSIDE THE AIRCRAFT

COCKPIT LAYOUT

- GENERAL CUT-OUT HANDLE
- ELECTRICAL CONTROL AND FIRE EXTINGUISHING PANEL
- GENERAL CUT-OUT HANDLE
- ENGINE CONTROL QUADRANT
- OVERHEAD PANEL
- PARKING BRAKE HANDLE
**GENERAL CUT-OUT HANDLES**

General CUT-OUT handles are located on overhead control panel.

Actuating one general CUT-OUT handles shuts off both engines and cuts off all the electrical supplies except the engine fire extinguishing systems and some necessary items (triple NR indicator…).

**ELECTRICAL SHUTDOWN**

General CUT-OUT handles or Emergency CUT-OFF on overhead control panel

**BATTERY**

Main battery is located in the nose (forward avionics compartment). Emergency battery is located in the baggage hold bulkhead (LH side of fuselage).
ENGINE SHUTDOWN
- Pull general CUT-OUT handles or,
- Engine STOP / IDLE / FLT control switches or,
- LH+RH fuel shut-off levers rearward.

ROTOR BRAKING

ENGINES MUST BE STOPPED BEFORE APPLYING ROTOR BRAKE.

The rotor brake safety control lever shall be in AFT position to enable the rotor braking through the rotor braking lever.

Max. 45% - 120 rpm for rotor braking (white triangle)
ENGINE FIRE DETECTION AND EXTINGUISHING SYSTEM

The system consists of detection and extinguishing circuits with two Halon fire extinguishers.
PROCEDURE IN CASE OF ENGINE FIRE DETECTION

1) Fuel Shut-off closed
2) Check rotor brake safety lever in AFT position
3) Rotor brake applied (NR below 45%)
4) Fight fire from outside if possible. Otherwise:

(NR = rotor rotation speed)

ON THE AFFECTED ENGINE: ......................... PRESS 1\textsuperscript{ST} SHOT.
THEN IF 1\textsuperscript{ST} SHOT RED LIGHT REMAINS
ON AFTER A 10S-DELAY: ..............................PRESS 2\textsuperscript{ND} SHOT.

SAFETY BELTS

![](image1)

Turn to unlock

OR

Lift to unlock