H155

Emergency access and rescue from helicopter

IMPORTANT NOTE

This Ground rescue booklet provided by Airbus Helicopters gives general and safety information concerning the H155. This document shall only be considered as a support for users to prepare their own documentation. It will not be systematically updated in line with the aircraft modification process. Depending on the country and the modification status of the helicopter, systems may differ in their location. This information booklet is provided free of charge by Airbus Helicopters. Wide-spread dissemination to firefighters and rescue teams around the world is strongly encouraged. Copies can be downloaded from the Airbus Helicopters web site.

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1 GENERAL INFORMATION

MAXIMUM GROSS WEIGHT ....................................................... 4920 kg
MAXIMUM GROSS WEIGHT FOR TAXIING ................................ 4950 kg

OCCUPANCY
- Crew ................................................................. one pilot or two pilots
- Passenger transport: ............ up to 13 passengers (with comfort seats)
- VIP: .......................................................... up to 8 passengers (with VIP layout)
- Corporate: ......................... up to 10 passengers (with Corporate layout)
- Medevac transport: .... up to 2 medical stretchers (and 4 pax/attendants)

DIMENSIONS

Fuselage length:................................................................. 12.71 m
Fuselage width: ............................................................... 3.48 m
Rotor diameter: ............................................................... 12.60 m
POWERPLANTS ........................................ TURBOMECA Arriel 2C2 (two)

FUEL CAPACITY .............................................................. Up to 1280 liters
LH group (green): 577 liters
RH group (yellow): 703 liters

ADDITIONAL FUEL TANK IN CARGO COMPARTMENT

Fuel capacity ................................................................. 180 liters
**OIL CAPACITY**

- Engine oil ................................................................. 6.2 l
- Main Transmission .................................................. 9.5 l
- Tail gear box ............................................................ 0.5 l

**HYDRAULIC FLUID CAPACITY**

(RH/LH = Right Hand side/Left Hand side)
1 - Cockpit door
2 - Passenger door
3 - Ceiling
4 - Strong frames
5 - Transmission deck
6 - Fin
7 - "Fenestron" deck
8 - Out board fin
9 - Horizontal stabilizer
10 - Tail boom (it is a buoyancy reserve)
11 - Body structure

12 - Hold floor (access to the rear fuel tank)
13 - Engine deck
14 - Frame at station 4630 bears the attachment fittings of MGB rear tie-bars and main landing gear
15 - Hold door (LH side only)
16 - Cabin rear floor (access to the central fuel tanks)
17 - Cockpit floor (access to the front fuel tanks)
18 - Hull
19 - Cabin forward floor
20 - Forward structure. Canopy
2 SAFETY INFORMATION - OUTSIDE THE AIRCRAFT

AIRCRAFT MAY BE CHARGED WITH STATIC ELECTRICITY. WEAR GLOVES AND IF POSSIBLE DISCHARGE THE AIRCRAFT BY ESTABLISHING AN ELECTRICAL GROUND.

DANGER AREA WITH ROTOR TURNING

EMERGENCY FLOATATION GEAR

FRONT/SPONSON FLOATS MAY INFLATE.
PITOTS

PITOTS ARE HEATED IN FLIGHT AND CAN CAUSE BURNS.

LUGGAGE HOLD

The vast luggage hold is accessible from both sides of the helicopter.
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 to come to a complete stop.

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

- Cool external adjacent structures with foam or water spray.

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 TO COME TO A COMPLETE STOP.
2) THE TEMPERATURE OF THE ENGINE EXHAUST NOZZLE COULD BE VERY HOT (UP TO 600°C).

- Spray the extinguishing agent (gaseous extinguisher recommended) between engine exhaust and engine nozzle.
- Proceed in circular movements until saturation.
FIRE IN THE MAIN GEAR BOX (MGB) COMPARTMENT

WAIT FOR ENGINES AND ROTOR TO COME TO A COMPLETE STOP.

- Spray the extinguishing agent through the easiest available opening (gaseous extinguisher recommended) to saturate the MGB compartment. Do not try to open the cowlings.
- In case of severe flash-over, use foam.
Doors can be jettisoned by actuating the jettison handle. It causes the door to fall away. The handle can be actuated only from the inside.
The fixed windows (including the sliding door windows) are jettisonable from inside or outside by pushing out / pulling out strongly after removing the seal-retaining strip.
3 SAFETY INFORMATION - INSIDE THE AIRCRAFT

COCKPIT LAYOUT

ELECTRICAL CONTROL AND FIRE EXTINGUISHING PANEL

OVERHEAD PANEL

PARKING BRAKE HANDLE
ELECTRICAL SHUTDOWN

EMERGENCY CUT-OFF switch on overhead control panel

BATTERY

Main battery is located between the nose and the cockpit of the aircraft. Emergency battery is located in the luggage compartment.
ENGINE SHUTDOWN

- Engine OFF / IDLE / FLT control switches or,
- LH+RH fuel shut-off levers rearward.

ROTOR BRAKING

ENGINES MUST BE STOPPED BEFORE APPLYING ROTOR BRAKE.

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

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

1) Fuel Shut-off closed
2) Rotor brake applied (NR below 120 rpm)
3) Fight fire from outside if possible. Otherwise:

- Engine extinguisher percussion controls
- RH engine extinguisher low pressure caution
- LH engine extinguisher low pressure caution

Turn to unlock
Or
Lift to unlock