

**SUD AVIATION**  
**SE. 3160 ALOUETTE III**  
**FLIGHT MANUAL**

**1.9 MANOEUVRING LIMITS**

**1.9.1 Maximum operating altitude**

Operating altitude is limited to 6500 m (21,300 ft) for flight and to 5800 m 19,000 ft for starting (for starting at altitude, refer to para.2.4.6)  
For limiting operational altitudes for helicopters equipped with floats refer to para. 1.11.5.

**1.9.2 Restrictions**

The following are prohibited :

- Engine starting with a main rotor blade over the tail pipe.
- Aerobatics (in particular never exceed a 45° nose-up attitude).
- IMC flight
- Flying in icing conditions.
- Prolonged rearward flight, (due to the return of exhaust gases toward the cabin).
- Starting or stopping the rotor to leeward of any building, edifice or other obstruction when wind is in excess of 45 knots
- Starting the rotor in all cases where wind is in excess of 60 knots.
- On the ground, decreasing rotor r.p.m by increasing collective-pitch to more than 0.20.
- Rapid yaw movements in hovering and vertical climb conditions.
- Operation of sliding doors in flight on helicopters not incorporating modifications 245 and 382 (these doors must be closed or removed).
- Deliberate autorotative landing (on ground) of helicopters equipped with floats
- manoeuvre of the L.H. sliding door which must be open and locked at all times when the floor hatch is down.
- Flying with friction devices not sufficiently tightened to ensure stability of the main rotor flying controls.
- Checking flying controls for behaviour by moving the cyclic stick in circles during flight.

**1.9.3 Positive manoeuvring load factors**

- With cargo sling ..... 1.5
- Other configurations ..... 2

**NOTE:** The load factor of 2 would be exceeded only in the event of a definitely acrobatic and violent manoeuvre.

**1.10 PLACARDS AND INSTRUMENT MARKINGS**

**1.10.1 Placards**

1. Placard secured to the canopy horizontal former, on the right of the pilot :

This placard recalls weight, rotor r.p.m., c.g and Vne limitations, and stipulates the following :

**THIS HELICOPTER MUST BE OPERATED IN COMPLIANCE WITH THE OPERATING LIMITATIONS SPECIFIED IN THE APPROVED ROTORCRAFT FLIGHT MANUAL.**