Stratoware/Miltech Simulations Bo105

Lighting System

The Bo 105 comes equipped with the following lights:

Position Lights

The position lights help to identify position and flight direction of the helicopter. The system consists of a red light on the port side and a green light on the starboard side, both on the vertical stabilizers. In addition, a white light is mounted on the rear top of the vertical fin fairing.

They are controlled by a switch in the overhead panel labelled POSITION LIGHT with ON and OFF positions.

Anti-collision Lights

During missions, two red flashing anti-collision lights shall attract the attention of pilots of other aircraft to the helicopter operating nearby. On ground, the anti-collision light is used as warning light to protect ground personnel from turning rotors. For this reason the anti-collision light is manually switched on before starting the engines and the rotors begin to turn, and it is not switched off before the rotors have stopped. The system consists of two anti-collision lights, one mounted on top of the tail rotor transmission and the other under the nose. They are controlled by a switch in the overhead panel labelled ANTICOLL LIGHT with ON and OFF positions.

Cabin Light

The cabin light provides general illumination for the cockpit during ground operations and low-light flying. They are intended for working tasks (pre-flight checks, passenger boarding, cargo loading) rather than for inflight use, as their output is not optimised to preserve the pilot's night vision. Operation is controlled by a toggle switch in the overhead panel labelled INTERNAL LIGHT with ON and OFF positions.

Instrument Lights



The instrument lights illuminate the cockpit panels. The system covers the main instrument panel, the warning light panel, the operator panel, and the magnetic compass, using a combination of internal panel lights, post lights and eyebrow lights as appropriate to each instrument. Operation is controlled by the INSTR LIGHT toggle switch on the operator panel, with ON and OFF positions. Light intensity is regulated by the INSTR LIGHT rheostat located on the instrument panel itself, allowing the pilot to dim the panels.

Landing Lights

The landing light improves forward visibility for night landings, approaches, and bad-weather operations. The assembly is installed in the nose shell and houses a 250 W quartz iodine lamp on an electrically driven hinge, which can extend out to approximately 75 degrees from the fully stowed position. This allows the beam to be aimed down and ahead during approach and hover, then retracted flush with the airframe for cruise to reduce drag and protect the lamp from impact damage. The landing light is controlled by two switches on the collective switchboard.



- The left switch controls the extension/retraction of the landing light.
- The right switch toggles the light itself.

Searchlight

Please refer to Camera & Searchlight for more information.