Technical Description



EO 85-005

Modification of External Mirror Assy

Airbus Helicopters EC135

S/N 0005-9999

1 Technical Description

With EO 85-005 “Modification of Mirror Assy” (EASA Minor Change Approval 10052216) HeliAir introduces a redesigned Cargo Hook Mirror Assy with an extended field of view for long line flights.



Fig. 1 – HeliAir Cargo Hook Mirror 1



Fig. 2 – HeliAir Cargo Hook Mirror 2

The new installed primary mirror is mechanically **tilted 7°** compared to the original AHD primary mirror. The original electrical adjustment & heating remains the same and can still be used after modification. The secondary mirror remains original. An **additional safety rope for the mirror glass** is also installed, the **edges of the mirror housing are extended** (compared to the original housing) to better protect the glass from the airstream in every possible mirror position.

The new primary mirror can be fitted to both LH & RH original AHD External Mirror Assemblies, compatible with all frames incl. the weather radar compatible frame. The limitations regarding Night Vision Operation, Rate of climb and Mass remain the same as with the original AHD Mirror Assy installed. Additionally, **removable NVIS-covers** (black leather) can be provided for all mirrors.

Installation

- New installation with complete HeliAir-Assembly
- Modification of AHD External Mirror Assy
- Maintenance: Replacement of single components (actuator, heating, glass, secondary mirror)

Effectivity

- EC135 P1 (CDS), EC135 P1 (CPDS), EC135 P2 (CPDS), EC135 P2+, EC135 P3/P3H, EC135 T1 (CDS), EC135 T1 (CPDS), EC135 T2 (CPDS), EC135 T2+, EC135 T3/T3H

Weight and Balance

- Weight: 3,51kg
- Arm longitudinal: +1100mm
- Moment longitudinal: +3861kgmm



Fig. 3 – RH Cargo Hook Mirror with extended field of view 1



Fig. 4 – RH Cargo Hook Mirror with extended field of view 2



Fig. 5 – RH Cargo Hook Mirror with extended field of view 3



Fig. 6 – RH Cargo Hook Mirror with extended field of view 4



Fig. 7 – NVIS covers for mirrors