



सत्यमेव जयते

## Directorate General of Civil Aviation

### AIRWORTHINESS DIRECTIVE

**AD No. 024**

**Issued/Date:** 02.09.2011

No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with DGCA or the state of registry, as applicable.

**Type Approval Holder's Name**

Rotary Wing Research & Design Centre, Hindustan Aeronautics Limited, Bangalore.

**Type/Model designation(s)**

All Civil variant DHRUV helicopters

**TCDS No.:** 5-8/96-RD

**Foreign AD Number:** Not Applicable

**Supersedure:** None

**ATA 65-10**

TAIL ROTOR DRIVE- Shafts – Check of elastomeric bush seating position on tail drive shaft assemblies (Seg.-3 & Seg.-4) in situ on the helicopter.

**Manufacturer(s):**

Helicopter Division, Hindustan Aeronautics Limited, Bangalore

**Applicability:**

Model number	Serial number
Dhruv (C)	PTC2, DCWR -01 onwards.
Dhruv (CFW)	DW-28, DW-63, DW-77 and DW-78, DCWF- 01 onwards
Dhruv (CS)	DS-35, DS-51, DS-65 and DCS -01 onwards

<b>Reason:</b>	<p>In one of the civil Dhruv helicopter, it was observed that the elastomeric bush (p/n 201P 636H 3000 201) was seating on the radius of TDS sleeve. This was due to the bearing flange assembly was done towards tail rotor side of TDS support bracket instead of towards FWD side of the helicopter. This wrong assembly may lead to gradual failure of the bearing leading to loss of tail drive power.</p> <p>Since an unsafe condition has been identified and that is likely to exists on other aircraft of the same type design, this Airworthiness Directive is being issued for carrying out one time check of elastomeric bush seating position on tail drive shaft assemblies (Seg.-3 &amp; Seg.-4) in situ on helicopters to ascertain any such wrong assembly in the fleet of civil variant ALH (Dhruv helicopter) in operation and for carrying out associated rectification in case of any such wrong assembly on civil Dhruv helicopters. This AD is applicable to civil Dhruv helicopter under production for checking the wrong assembly and to prevent its re-occurrence during assembly and submit the compliance certificate to Airworthiness Group of RWR&amp;DC, HAL, Bangalore through Customer Services Department of Helicopter Division.</p>
<b>Effective Date:</b>	Within 14 days after final AD issue date.
<b>Compliance:</b>	Carry out the inspection on civil variant ALH (Dhruv helicopter) as per Alert Service Bulletin No. 201 610 A 370, Rev A, dated 28.01.2011 after receipt of this Airworthiness Directive on helicopters in operation and under production.
<b>Ref. Publications:</b>	RWR & DC-HAL Alert Service Bulletin No. 201 610 A 370, Rev A, dated 28.01.2011
<b>Remarks:</b>	<ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, Dy. Director General (AED), New Delhi may accept Alternative Methods of Compliance for this AD.</li> <li>2. Enquiries regarding this AD should be addressed to Deputy Director General (AED), Aircraft Engineering Directorate, Office of the Director General of Civil Aviation, Civil Aviation Department, Opposite Safdarjung Airport, New Delhi – 110003. E-mail: <a href="mailto:lalit.dgca@nic.in">lalit.dgca@nic.in</a>.</li> <li>3. For any questions concerning the technical content of the requirements in this AD/above referred ASB, please contact: Customer Services Department, ALH civil, Helicopter Division, Hindustan Aeronautics Limited, Vimanapura post, Bangalore – 560017. INDIA. Telephone No. +91 -80-2522 4088, FAX: +91-080-2522 3713 Email: <a href="mailto:csdalh@yahoo.com">csdalh@yahoo.com</a>.</li> </ol>

This AD, which prescribes/mandates action to be performed on to helicopters as stated above to restore an acceptable level of safety is hereby issued pursuant to CAR 21.3B. TC holder/ Operators are required to comply with the above stated AD within the stipulated time.

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(Lalit Gupta)  
Dy. Director General of Civil Aviation  
for Director General of Civil Aviation