



सत्यमेव जयते

## Directorate General of Civil Aviation

### AIRWORTHINESS DIRECTIVE

**AD No. 013R1**

**Issued/Date:** 16.02.2010

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 variants of DHRUV helicopter

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

**Foreign AD Number:** Not Applicable

**Supersedure:** None

**ATA 34 – 50**

NAVIGATION – Dependent Position Determination – Design improvement in GPS antenna bracket.

**Manufacturer(s):**

Helicopter Division, Hindustan Aeronautics Limited, Bangalore

**Applicability:**

Model No.s      Serial No.s

Dhruv (C)      PTC2, DCWR-01 onwards

Dhruv(CFW)      DW-28,DW-77, DW-78, DW-63, DCWF- 01 onwards

Dhruv (CS)      DS-35, DS-51, DCS – 01 onwards



<b>Reason:</b>	<ol style="list-style-type: none"> <li>1. On some of the Dhruv helicopters, incidents of GPS antenna along with bracket and connector breaking away from main structure during flights were reported.</li> <li>2. Investigation by Failure Review Board attributed the failure of sheet metal antenna bracket to its inherent strength deficiency. Replacement of existing GPS antenna bracket with machined bracket was recommended.</li> <li>3. Part breaking away from aircraft during flight may cause injury to person or damage property on ground.</li> </ol> <p>Since an unsafe condition has been identified that is likely to exist on other aircraft of the same type design, this Airworthiness Directive is being issued for carrying out the modification and submit the compliance certificate to Airworthiness Group of RWR&amp;DC, HAL, Bangalore.</p>
<b>Effective Date:</b>	Within 21days after final AD issue date.
<b>Compliance:</b>	Carry out the modifications as per Service Bulletin No. 201 345 269, Rev A, dated 12.06.2008 immediately after receipt of this Airworthiness Directive for delivered helicopters or ensure modification leaflet No.ALHC/345/0070, Rev. A, dated 12.06.08 has been complied in production.
<b>Ref. Publications:</b>	RWR&DC-HAL Service Bulletin No. 201 345 269, Rev A, dated 12.06.2008.
<b>Remarks:</b>	<ol style="list-style-type: none"> <li>1. If requested and appropriately substantiated, Director (AED), New Delhi may accept Alternative Methods of Compliance for this AD.</li> <li>2. Enquiries regarding this AD should be addressed to Director (AED), Office of the Director General of Civil Aviation, Civil aviation Department, Opposite Safdarjung Airport, New Delhi – 110003. E-mail: <a href="mailto:design@dgca.nic.in">design@dgca.nic.in</a>.</li> <li>3. For any questions concerning the technical content of the requirements in this AD/above referred SB, please contact: Customer Services Department, ALH civil, Helicopter Division, Hindustan Aeronautics Limited, Vimanapura post, Bangalore – 560017. INDIA. Telephone No. +91-080-2522 4088, FAX: + 91-080-25223713, Email: csdalh@yahoo.com.</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 shall comply with the above stated AD within the stipulated time.

-Sd-

(R Chinnadurai)

Deputy Director General of Civil Aviation  
For Director General of Civil Aviation