



DIRECTORATE GENERAL OF CIVIL AVIATION

AIRWORTHINESS DIRECTIVE

AD No.: 028

Issued / Date: 23-07-2012

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 the DGCA or the State of Registry as applicable.

Type Approval Holder's Name Rotary Wing Research and Design Centre, Hindustan Aeronautics Limited, Bangalore	Type /Model designation (s) All civil variant Advanced Light Helicopters (Dhruv)
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Type certificate Data Sheet Number :5-8/96 – RD

Foreign AD Number : Not applicable

Supersedure :None

ATA Chapter: 67	Name of the Affected part : FDR/CVR potentiometer attachments of cyclic and directional channels.	Required action : Introduction of split pins in FDR/CVR potentiometer attachments of cyclic and directional channels.
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Manufacturer : Helicopter Division, Hindustan Aeronautics Limited, Bangalore.

Applicability :	Model Number	Serial Number
	Dhruv (C)	PTC2, DCWR 01 onwards;
	Dhruv (CFW)	DW 28, DW 77, DW 78, DCWF 01 to 04, DCWF 06 and DCWF 07 onwards;
	Dhruv (CS)	DS 35, DS 51, DS 65 and DCS 01 onwards.

Reason : In one of the Military Dhruv Helicopter, Pilot observed physical travel of collective lever obstructed at corresponding torque of 72 percent. Defect investigation revealed that the clip assembly connecting FDR/CVR potentiometer to control rod was found displaced by approximately 20mm upward from its designated position.

Since the unsafe condition has been identified which is likely to develop on other Advanced Light Helicopters of similar type design, this Airworthiness

	<p>Directive is being issued for introduction of split pins in clip assembly and FDR/CVR potentiometer attachments of cyclic and directional channels to ensure retention of tightening torque.</p> <p>The compliance certificate of the subject modification shall be submitted to the Airworthiness Group of RWR&DC, HAL, Bangalore through the Customer Service Department of Helicopter Division, HAL, Bangalore.</p>
Effective Date :	Forthwith.
Compliance :	<p>1. For all civil ALH under production :</p> <p>As specified in modification Leaflet No. ALHC/671/0196, Rev. A, dated 28-09-2011.</p> <p>2. For all civil ALH in operation :</p> <p>As specified in Service Bulletin No. 201 671 381, Rev. A, dated 15-10-2011.</p> <p>The modification stated in the SB must be complied within 50 flight hours or 90 days, whichever is earlier, from the date of issue of this AD.</p>
Ref. Publications :	HAL – Modification Leaflet No. ALHC/671/0196, Rev. A, dated 28-09-2011 and HAL – Service Bulletin No. 201 671 381, Rev. A, dated 15-10-2011
Remarks :	<p>1. If requested and appropriately substantiated, Deputy Director General, Aircraft Engineering Directorate, Office of the DGCA, New Delhi may accept alternative methods of Compliance (AMOCs) for this AD.</p> <p>2. Enquiries regarding this AD should be addressed to Deputy Director General, Aircraft Engineering Directorate, Office of the DGCA, Opposite to Safdarjung Airport, New Delhi-110003. E-mail : lalit.dgca@nic.in</p> <p>3. For any questions concerning the technical content of the requirements in this AD/above referred SB, please contact to the Customer Care Department , ALH-Civil, Helicopter Division, HAL, Post : Vimanapura, Bangalore – 560017, India.</p> <p>Telephone Number : +91-080-2522 4088, Fax : +91-080-2522 3713 e-mail : csdalh@yahoo.com</p>

This AD, which prescribes/mandates action to be performed on the 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.

-Sd-
(Lalit Gupta)
Deputy Director General
For Director General of Civil Aviation