

**BUREAU VERITAS**

# **AIRWORTHINESS DIRECTIVE**

released by Direction Générale de l'Aviation Civile

*Inspections and/or modifications described below are mandatory. No person may operate a product to which this Airworthiness Directive applies except in accordance with the requirements of this Airworthiness Directive.*

Translation of "Consigne de Navigabilité"  
Réf. : 85-68-38(B)  
In case of any difficulty, reference should  
be made to the French original issue.

## **AEROSPATIALE HELICOPTERS AS 350 ALL MODELS (ASTAR AND ECUREUIL)**

### **INSPECTION OF THE BOLTED JUNCTION : BEVEL RING GEAR/VERTICAL SHAFT OF THE BEVEL REDUCTION GEAR MODULE ON THE MGB**

The present Airworthiness Directive concerns bevel reduction gear modules P/N 350A.32.0300.00, .01 and .02.

**NOTE :** The present Airworthiness Directive is not applicable to the bevel reduction gear modules modified in accordance with one of the following modifications :

- .) AMS 07.7082 (increasing the torque loading-introduction of self-locking nuts).
- .) AMS 07.7083 (positive safetying of bolts and nuts by means of locknuts).
- .) AMS 07.7098 (new retaining bolts and shur-lock nuts with positive safetying).

Following several cases of failure of the bolts ensuring the junction of the bevel ring gear with the vertical shaft, detected on aircraft in service during maintenance operations, the following measures aimed at ensuring that the vertical shaft/bevel ring gear bolted junction is correctly tightened, have been rendered mandatory (unless already accomplished) :

- 1 - Within the next 10 hours of flight after DECEMBER 22, 1982, then every 50 hours of flight (until compliance with the check defined at paragraph 2 below), visually inspect the 20 bolts ensuring the bevel ring gear/vertical shaft junction, for correct tightening in accordance with the instructions of AEROSPATIALE Service Bulletin AS 350 N. 05-10.

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- 2 - Within the next 300 hours of flight after DECEMBER 22, 1982 (on the occasion of the T1 type inspection), check that the 20 bolts ensuring the bevel ring gear/vertical shaft junction are correctly tightened, in accordance with the instructions given in AEROSPATIALE Service Bulletin AS 350 N. 05-10.
- 3 - After checking for correct tightening in accordance with paragraphe 2 above, a visual inspection of the tightening is to be carried out every 300 hours of flight in accordance with AEROSPATIALE Service Bulletin AS 350 N. 05-10.

**NOTE :** The same instructions are applicable to the spare gear boxes : The first visual inspection of the tightening should take place within the 50 hours of flight following the service entry of a bevel ring gear module.

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Ref. : AEROSPATIALE Service Bulletin AS 350 N. 05-10 Révision 1  
or approved subsequent revisions.

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**Cancels and replaces A.D. n° 82-176-28(B) dated DECEMBER 15, 1982.**

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**EFFECTIVE DATE : MAY 29, 1985**