

AIRWORTHINESS DIRECTIVE

RELEASED BY THE SECRETARIAT GENERAL
FOR CIVIL AVIATION

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AEROSPATIALE HELICOPTERS - ALOUETTE III

Main gear boxes

Effectivity : SE 3160 and SA 316 B helicopters fitted with a main gear box identified in accordance with the following table :

HELICOPTER TYPE	M.G.B. AFFECTED	
	PART NUMBER	IDENTIFICATION
3160	3160S.62.00.000 .3 to .14	Serial number up to and excluding 10000 and not incorporating AM 2017. (check equipment log card)
316 B	3160S.62.00.000 .10 } + AM to .12 } 1212 .13 .14	

Based on the findings made in service and to avoid overloading the M.G.B. planet gears (first and second stage), the following steps have been rendered mandatory on receipt of the present Directive :

- 1 - Reduce the maximum permissible collective pitch by 0.03 in hover, transition manoeuvres and level flight at maximum air speed, in accordance with the following table :

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Date : 29.12.75	Material : AEROSPATIALE helicopters - ALOUETTE III	Reference : 75-231-26
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POWER-ON FLIGHT COLLECTIVE PITCH LIMITATIONS

DENSITY-ALTITUDE		CLIMB	HOVER	TRANSITION MANOEUVRES OR LEVEL FLIGHT AT MX. SPEED
metres	Feet			
- 1000	- 3300	0.70	0.67	0.72
0	0	0.75	0.72	0.77
1000	3300	0.80	0.77	0.82
2000	6600	0.85	0.82	0.87
3000	9900	0.90	0.87	0.92
4000	13200	0.95	0.92	0.97
5000 and above	16500 and above	1.	0.97	1.02

NOTE : climbing and cruising pitches are unchanged.

2 - Reduction of take-off weight in ground effect (I.G.E.) and out of ground effect (O.G.E.) depending upon density-altitude, in accordance with the following table :

REDUCING TAKE-OFF WEIGHT (I.G.E.) and (O.G.E.)			
Density-altitude		Weight reduction	
metres	feet	Kg	lb
0	0	105	231
1000	3300	95	209
2000	6600	86	190
3000	9900	78	172
4000	13200	70	154
5000	16500	63	139
6000	19800	0	0

These new limitations which should be displayed in the cockpit, clearly visible from pilot's station, will form the subject of special revision No 1 to the approved Flight Manual.

REFERENCE : AEROSPATIALE ALOUETTE SERVICE-BULLETIN No 01.40 .

Supersedes paragraph II of Airworthiness Directive No 74-75-19