

316 319

For correct identification of the types concerned refer to the basic numbers snown in the Index of Service Bulletins(page 1).

N° 55.07

CLASSIFICATION : OPTIONAL

SUBJECT: STABILIZERS

Improvement of the flexible mounting of the

stabilizer spar tube.

Corresponds to modification: AM 1300

OFFICIAL APPROVAL

S.G.A.C. approved

RECOMMENDED

Date : April 3, 1974

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H SERVICE BULLETIN

1 - PLANNING INFORMATION

A - EFFECTIVITY

All Alouette III type 316-319 aircraft.

B - REASON

To avoid damage of the stabilizer spar tube and lengthen the inspection intervals which are extended from 200 to 400 hours.

C - DESCRIPTION

The modification consists of :

- re-reaming the brackets attaching the stabilizer panel to the tail boom;
- re-reaming the castle nuts ;
- replacing the rubber bushes by Teflon bushes;
- deleting the existing Teflon washers ;
- Effect on interchangeability : not affected
- Effect on electrical balance : none

D - COMPLIANCE

On production line : Optional.

Retrofit action : By operators on removal of the stabilizer

Spares : On request.

E - APPROVAL

Modification approved by the "Service Technique Aéronautique" on 6th September 1972.

F - MANPOWER

- 1 fitter
- 1 machine-tool operator } about 6 hours

The time needed to manufacture the tooling is not included.

G - MATERIAL - Cost - Availability

Bushes 3160S.23.11.108 are to be ordered as spares.

H - TOOLING - Cost - Availability

Not applicable.

I - WEIGHT and BALANCE

Not applicable.

J - REFERENCES

Refer to : - figures 1 and 2

- Maintenance Manual, chapter 55.

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2 - ACCOMPLISHMENT INSTRUCTIONS

A - PRELIMINARY STEPS

(1) In accordance with the dimensions of figure 1, manufacture a tool out of steel (C.20 for instance), in order to be able to machine stabilizer brackets 3160S.23.11.092 and 3160S.23.11.093 and castle nuts 3160S.23.11.099 on a lathe.

(2) Remove the stabilizer, in accordance with the instructions given in the

Maintenance Manual, chapter 55.

(3) Remove brackets 3160S.23.11.092 and 3160S.23.11.093 from the tail boom.

<u>CAUTION</u>: Brackets and tail boom cannot be dissociated. Mark their respective position so that the brackets are not discarded on reassembly if the correct incidence angle of the stabilizer panels cannot be obtained.

B - OPERATING PROCEDURE

(1) Transformation of brackets 3160S.23.11.092 and 3160S.23.11.093 into brackets 3160S.23.11.105 and 3160S.23.11.106.

Refer to figure 2.

- On a precision lathe, use the tool manufactured according to figure 1 to modify

brackets 3160S.23.11.092 into 3160S.23.11.105 and brackets 3160S.23.11.093 into 3160S.23.11.106, by reworking the inside diameter:

dia. 37 + 0.1 is machined to dia. 38 + 0.1

and

radius 0.5 is machined to radius 1 mm.

- Surface finish on reworked areas - "Magic Bluer" (Specification Mil-C-13924A)
Supplier: BIRCHWOOD CHEMICAL

P.O. BOX 100

HOPKINS

Minnesota

(2) Transformation of castle nuts 31605.23.11.099 into castle nuts 31605.23.11.107

Refer to figure 2.

- On a precision lathe, use the tool manufactured according to figure 1 to modify castle nuts 3160S.23.11.099 into 3160S.23.11.107,

by remachining the inside diameter:

dia. 37.4 + 0.1 is machined to 39.4 + 0.1 and by making a 1 mm radius.

- Surface finish on reworked areas - "Magic Bluer".

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(3) Installation

On the tail boom, offer up L.H. bracket 3160S.23.11.105 and R.H. bracket 3160S.23.11.106; after installing R.H. profile block 3160S.23.11.323 and L.H. profile block 3160S.23.11.324, secure the brackets with the screws previously removed:

8 screws 3160S.99.23.002

8 washers 3160S.23.11.094

Install Teflon bushes 3160S.23.11.108 in the bracket housings. Fit castle nuts 3160S.23.107.

In accordance with the instructions given in the Maintenance Manual, chapter 55.1 paragraph 2 B or 55.00 page 403 paragraph 2, replace the spar tube, the stabilizer panel and the fin, taking into account the operating instructions (paragraph 2 D).

C - IDENTIFICATION

Tail boom 3160S.23.11.000.14 is changed to .15. For tail booms with lower dot numbers, mention embodiment of the modification on the log card.

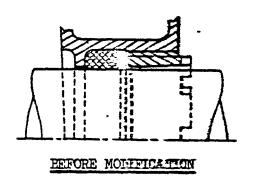
D - OPERATING INSTRUCTIONS

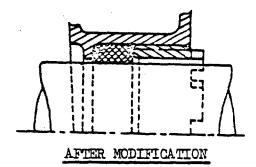
- (1) On installation:
 - . make sure that the bush is fully home in the housing,
 - . make sure that the castle nut can be fitted freely, torque to 0.5 mdaN,
 - . untighten the castle nut completely,
 - . after drawing up against the bush, again apply a torque of 1.3 mdaN.
- (2) Change the Teflon bushes on the 800 hour periodic inspection.
- (3) If the reworked brackets are fitted again with the original rubber bushes a (due, for example, to the lack of provisioning), tighten the castellated muts as mentioned in Chapter 55.1 of Maintenance Manual. After the first 5 flying hours, check the tightening torque of these muts (refer to chapter 5.6 of Maintenance Manual).

CAUTION :

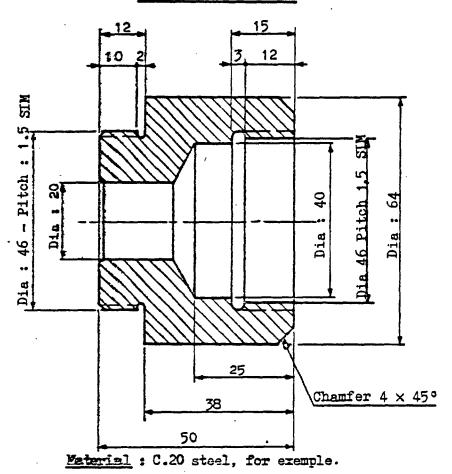
- In this definition, it is mandatory to replace the Teflor bushes by rubber bushes or both sides at the same time, (mixing being prohibited).
- This exceptional installation limits the service life of rubber bushes to 100 hours.

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▲ _ INSTALIATION DIAGRAM



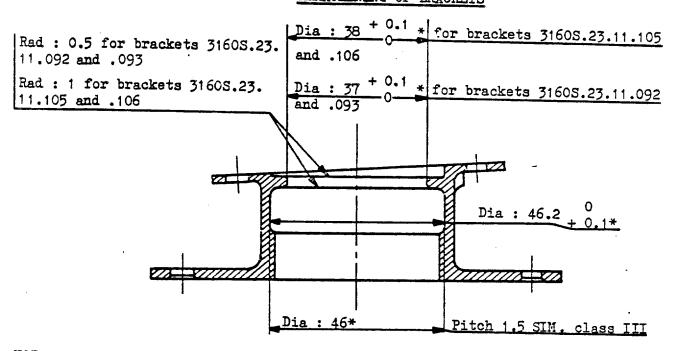
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B - DIAGRAM OF THE REMACHINING TOOL

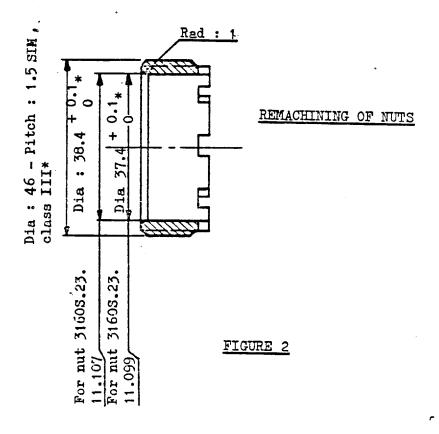
FIGURE 1

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REMACHINING OF BRACKETS



NOTE: Diameters marked with an asterisk must be concentric within a tolerance of 0.05 (total indicator reading).



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3 - MATERIAL INFORMATION

A - BASIC INFORMATION

The bill of material required for the application of the present SERVICE BULLETIN has been established for : 1 ALOUETTE III aircraft.

B - COMPLETE BILL OF MATERIAL

AM 1300

NEW PART NUMBER				Overnitry	Unit Price	DESCRIPTION	FC	DRMER PART NUMBER	Quantity	INSTRUCTION EFFECTIVITY	
3160S.23.11.105 3160S.23.11.106 3160S.23.11.107 3160S.23.11.108		8888	1 1 2 2		L.H. bracket R.H. bracket Castle nut Bush Washer	3160S.23.11.092 H 3160S.23.11.093 H 3160S.23.11.099 H 3160S.23.11.088 F 3160S.23.11.098 F		1 2 2			
KEY	A New B Interchangeable C Already used on aircraft				ıft_	Included in kit	F G	Cancelled Re-usable on of assemblies	on other		
	D Local manufacture E To be ordered separately inot in stock				ely	Not included in kit	H				

C - COMPLETE BILL OF TOOLS Not applicable.

D - PROCUREMENT CONDITIONS Refer to paragraph 1G.