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Federal Aviation Administration

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SPECIAL AIRWORTHINESS INFORMATION BULLETIN

Aircraft Certification Service
Washington, DC

<http://www.faa.gov/aircraft/safety/alerts/SAIB>

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin (SAIB) alerts you, owners and operators of **Aeromot-Industria models (see Table 1)**, that the Brazilian Airworthiness Authority, has issued foreign Airworthiness Directive (AD) 2004-11-05, effective November 29, 2004. This AD calls for the inspection and replacement of the nut and bolt installed on each main landing gear torque link. Aeromot has issued Service Bulletin (SB) 200-32-100 (attached), which details the maintenance procedures.

The nut, P/N 5PA-108, installed at the torque link, connects the movable leg to the fixed strut of the main landing gear.

Recommendation

We recommend that you accomplish the actions listed in the SB. However, in lieu of recurring inspections, we recommend replacing the fastener assembly as outlined in Part II of Aeromot's SB. The SB is also available on line at:

http://www.aeromot.com.br/english/sb/sb-0100_in.pdf

Note: Foreign ADs are not considered mandatory actions for U.S. products.

For Further Information Contact

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Table 1

| Model | Affected Serial Number |
|-------------------------------|--|
| AMT-100 | 100.001 to 100.003, 100.005 to 100.015, 100.017, 100.019, 100.022 to 100.039, 100.041 to 100.044 |
| AMT-100 (modified to AMT-200) | 100.004, 100.016, 100.018, 100.020 and 100.021 |
| AMT-200 | 200.040, 200.045 to 200.105, 200.108 to 200.111, 200.113 to 200.118, 200.121 |
| AMT-200S | 200.119, 200.122 to 200.124, 200.126 to 200.155 |
| AMT-300 | 300.106, 300.107, 300.115 and 300.125 |

Background

During a landing, a critical fastener (nut) within the main landing gear assembly became loose resulting in rotation of the movable leg and damage to the landing gear structure.



Title: MAIN LANDING GEAR – BOLT FITTING INSPECTION AND REPLACEMENT

1. PLANNING INFORMATION:

1.1 Effectivity

Aircraft affected:

| Model: | Serial Number: |
|-------------------------------|--|
| AMT-100 | 100.001 to 100.003, 100.005 to 100.015, 100.017, 100.019, 100.022 to 100.039, 100.041 to 100.044 |
| AMT-100 (modified to AMT-200) | 100.004, 100.016, 100.018, 100.020 and 100.021 |
| AMT-200 | 200.040, 200.045 to 200.105, 200.108 to 200.111, 200.113 to 200.118, 200.121 |
| AMT-200S | 200.119, 200.122 to 200.124, 200.126 to 200.155 |
| AMT-300 | 300.106, 300.107, 300.115 and 300.125 |

1.2 Reason.

One case of loosening of the nut P/N 5PA-108, installed at the torque link, which connects the movable leg to the fixed strut of the landing gear, has occurred during landing and bolt P/N UNBRAKO-6, dropped causing a rotation of the movable strut of landing gear and damages on it.

1.3 Description

This Service Bulletin describes the inspection of nuts P/N 5PA-108 and bolts P/N UNBRAKO-6 installed at landing gear torque links (RH and LH). The inspection must be performed before the next flight and in each pre-flight inspection (Part I of this Service Bulletin).

As a final solution, nuts and bolts originally installed must be replaced by new bolts with castellated nuts and cotter pins, in the maximum stated period of 30 landings (Part II of this Service Bulletin).

1.4 Approval

CTA/IFI - Divisão de Homologação Aeronáutica



1.5 Man Power required.

Part I – 15 min

Part II – 2 hours

1.6 Material and Availability.

Materials are available at the Distributor. Contact AEROMOT – Commercial Dept, phone 55 51 3371 1644 or fax 55 51 3371 1655 if necessary.

| Item | P/N | Description | Qty/Acft |
|------|-----------|-------------|----------|
| 01 | AN4-13 | Bolt | 02 |
| 02 | AN310-4 | Nut | 02 |
| 03 | AN960-416 | Washer | 04 |
| 04 | AN380-2-3 | Cotter pin | 02 |
| 05 | 32391 | Spacer | 02 |
| 06 | 32392 | Bushing | 04 |

1.7 Tooling.

Standard Maintenance tools and devices shown in Figure 1 of this Service Bulletin.

1.8 Weight and balance.

Not affected.

1.9 Electrical load.

Not affected.

1.10 References.

- Parts Catalog AMT-100/ AMT200
- Parts Catalog AMT-200S
- Parts Catalog AMT-300

1.11 Other documents.

- Not applicable



2. Accomplishment Instructions.

2.1 Parts I - Inspection of fitting bolt installation at the torque link assembly.

- 2.1.1 Before the next flight inspect the bolt P/N UNBRAKO-6 (IPC fig. 2 item 22) to check if self locking nut P/N 5PA-108 (item 25) is loosen or without its paint lock.
- 2.1.2 If the self locking nut is loosen, replace the nut by a new one and install it applying a torque of 30 to 40 lb-in. Apply new paint lock.
- 2.1.3 Repeat the inspection at each pre-flight inspection. The application of Part II of this Service Bulletin must be scheduled within the maximum stated period of 30 landings.

2.2 Parts II – New Lock Washer installation.

- 2.2.1 Check if the parking brake is applied and install the wooden wedges at the main landing gear wheels.
- 2.2.2 Remove bolts P/N UNBRAKO-6, washers P/N ZU-5 and ZU-6, spacers P/N 32374 and nuts P/N 5PA-108 from torque link assembly of main landing gear (LH and RH).
- 2.2.3 Clean the torque link assemblies (LH and RH).
- 2.2.4 Remove bushings P/N MB 06-10 DU from torque links using tool as shown in figure 1 or other equivalent method.

NOTE: It not necessary to remove the torque link assy from main landing gear.

- 2.2.5 Install new bushings P/N 32392 using the same tool as shown in figure 2 or other equivalent method.
- 2.2.6 Install at torque links of main landing gears (LH and RH), bolts P/N AN4-13, spacers P/N 32391, washers P/N AN960-416, nuts P/N AN310-4 and lock them with cotter pins P/N AN380-2-3 assuring a clearance of 0,1 to 0,3 mm between the torque link, as shown in figure 3.
- 2.2.7 Record the Service Bulletin application in the Airframe Log Book.



3. MATERIAL INFORMATION.

Note: Material listed below are applicable for the two main landing gears.

| NEW P/N | QTY | DESCRIPTION | OLD P/N | INSTRUCTIONS |
|-----------|-----|-------------|------------|--|
| AN4-13 | 02 | Bolt | UNBRAKO-6 | Discard old part and install the new one |
| 32392 | 04 | Bushing | MB 06-10DU | Discard old part and install the new one |
| 32391 | 02 | Spacer | 32374 | Discard old part and install the new one |
| AN310-4 | 02 | Nut | 5PA-108 | Discard old part and install the new one |
| AN960-416 | 04 | Washer | ZU-6 | Discard old part and install the new one |
| AN380-2-3 | 02 | Cotter pin | - | Install |
| - | 02 | Washer | ZU-5 | Discard. |

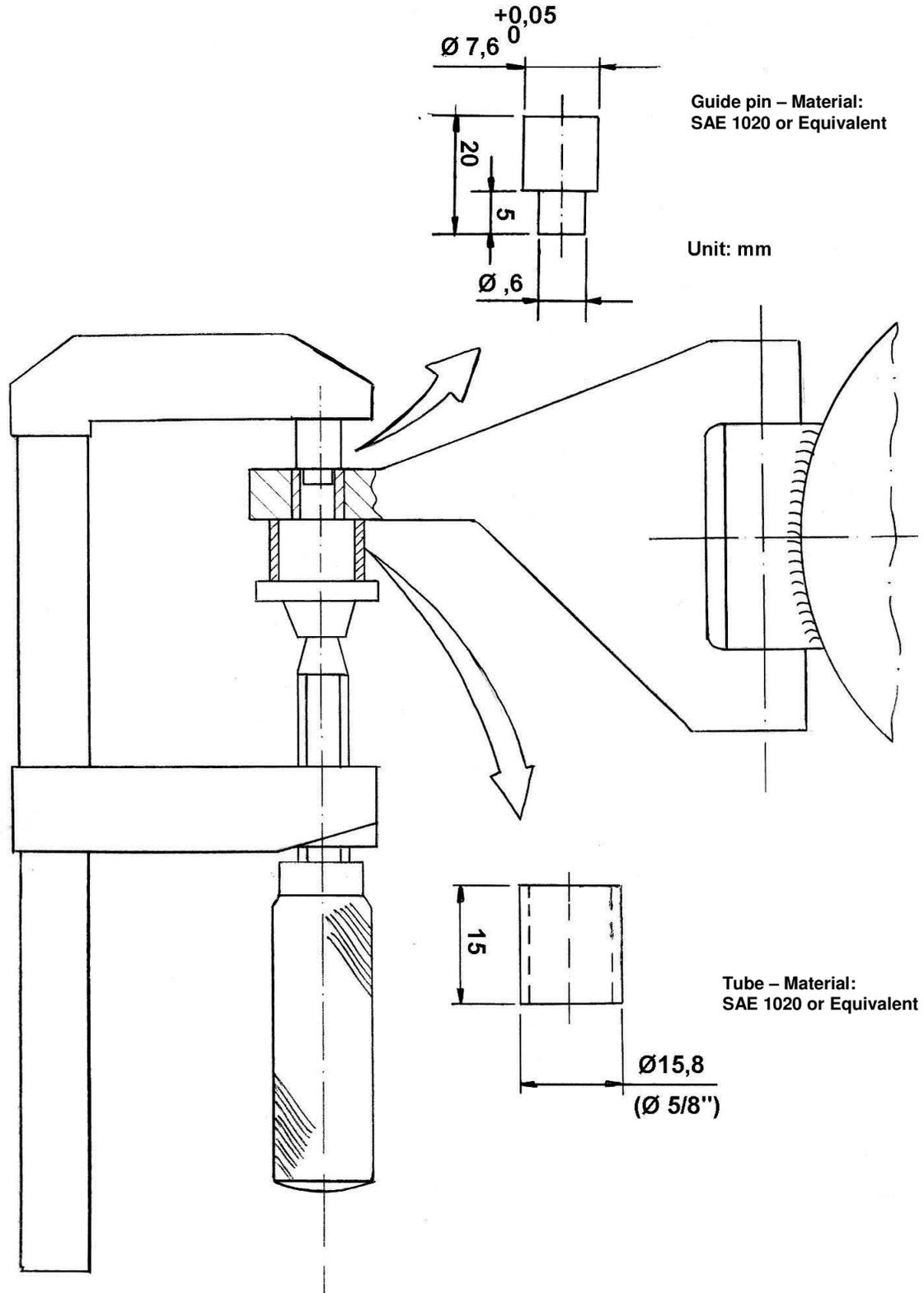


Figura 1 - REMOVAL OF BUSHING P/N MB 06-10DU

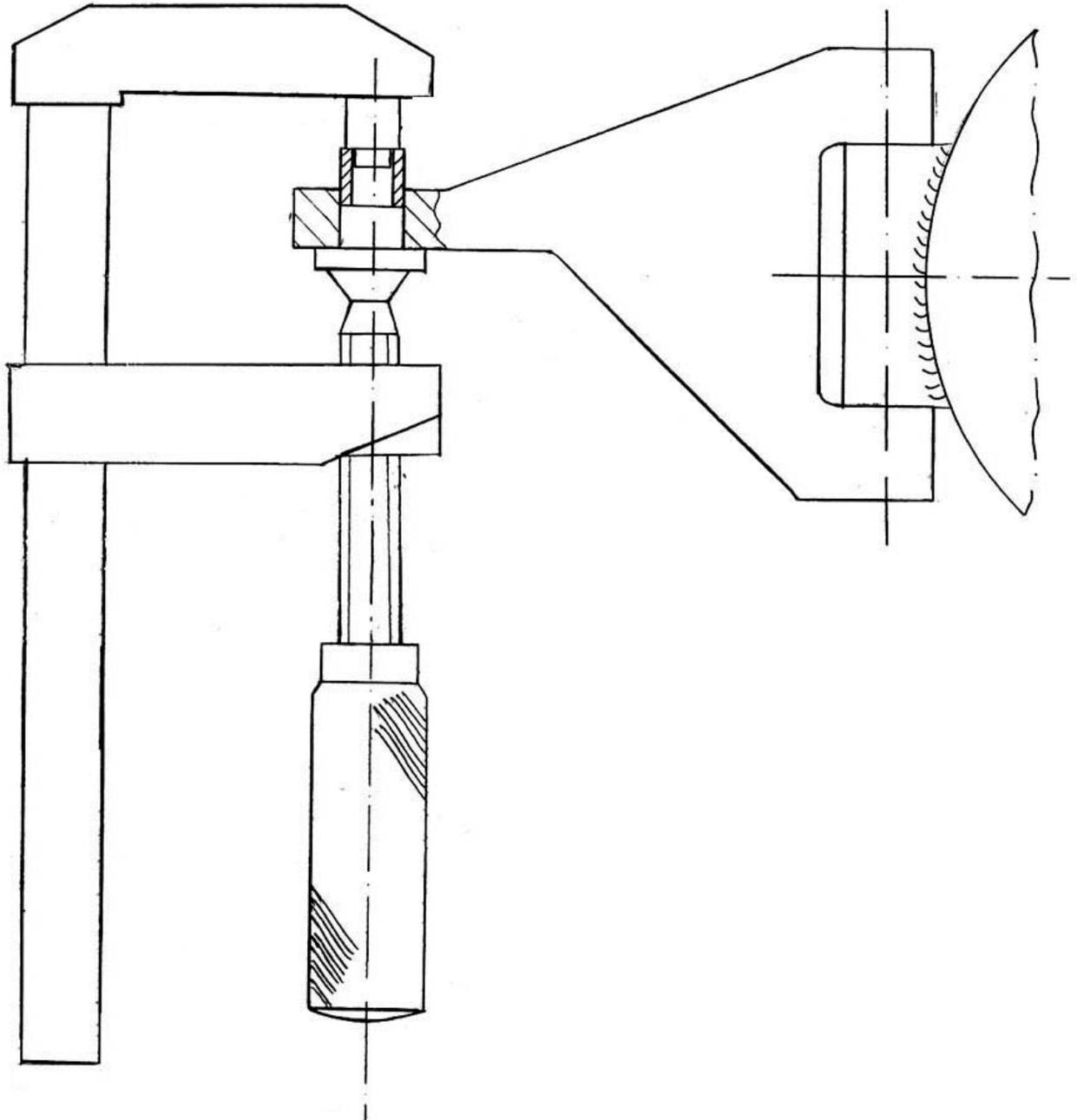


Figura 2 -INSTALLATION OF BUSHING P/N 32392

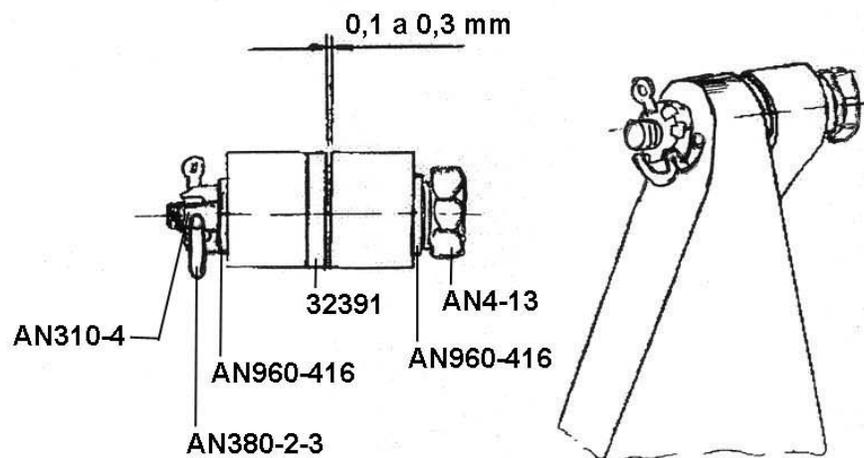
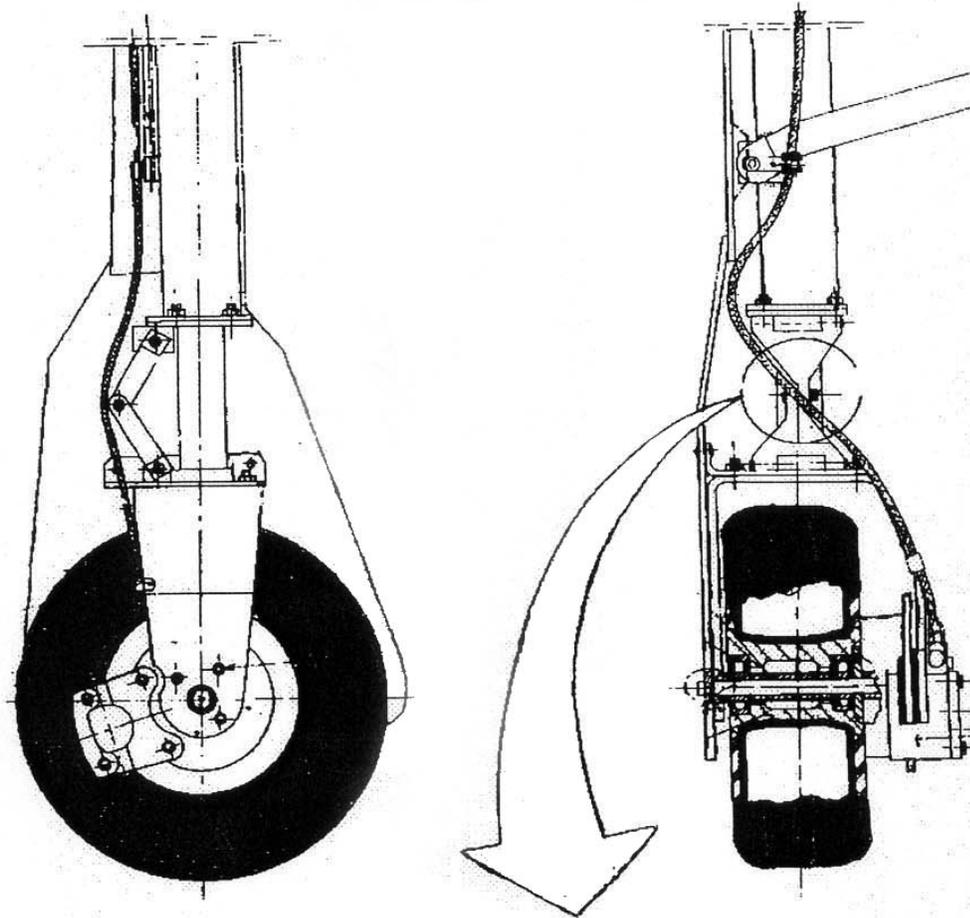


Figura 3