

THE GLIDING FEDERATION OF AUSTRALIA

GFA AD 559
(ISSUE 1)

GFA AIRWORTHINESS DIRECTIVE

TYPE AFFECTED: AMT-200 Super Ximango, serial numbers 200040, 200045 to 200105, 200108 to 200111, 200113 to 200118 and 200121.

SUBJECT: Jamming of elevator control.

BACKGROUND: The above problem had been discovered in flight and was found to be caused by interference between the main undercarriage lever and the nut at the end of the elevator control rod.

DOCUMENTATION: Brazilian Airworthiness Directive (Emergency) No 2001-10-01 and Aeromot Service Bulletin No 200-27-078 form part of this AD.

ACTION REQUIRED: Carry out actions as required under "Compliance" in attached Brazilian EAD and "Accomplishment Instructions" in Aeromot Service Bulletin.

WEIGHT AND BALANCE: Not affected.

IMPLEMENTATION: Before further flight.

COMPLIANCE: The requirements of this GFA Airworthiness Directive are mandatory. This Directive is issued pursuant to the Rules and Regulations of the Gliding Federation of Australia.


SIGNED:

[Signature]
Per CHIEF TECHNICAL OFFICER AIRWORTHINESS



For and on behalf of:

THE GLIDING FEDERATION
OF AUSTRALIA

 <p>SERVIÇO PÚBLICO FEDERAL DEPARTAMENTO DE AVIAÇÃO CIVIL</p>	<p>BRAZILIAN AIRWORTHINESS DIRECTIVE (EMERGENCY)</p>	
	<p>EFFECTIVE DATE 09 October 2001</p>	<p>EAD No.: 2001-10-01</p>

The following Emergency Airworthiness Directive (EAD), issued by the Departamento de Aviação Civil (DAC) in accordance with provisions of Chapter IV, Title III of Código Brasileiro de Aeronáutica - Law NR 7,565 dated 19 December 1986 - and Regulamento Brasileiro de Homologação Aeronáutica (REHA) 39, applies to all aircraft registered in the Registro Aeronáutico Brasileiro. No person may operate an aircraft to which this EAD applies, unless it has previously complied with the requirements established herein.

EAD No. 2001-10-01 - AEROMOT - Amendment 39-918.

APPLICABILITY: This Emergency Airworthiness Directive is applicable to Aeromot AMT-100 aircraft models of serial numbers 100001 thru 100003, 100005 thru 100015, 100017, 100019, 100022 thru 100039, 100041 thru 100044; to AMT-100 aircraft models (re-motorized to AMT-200) of serial numbers 100004, 100016, 100018, 100020 and 100021; and to AMT-200 aircraft models of serial numbers 200040, 200045 thru 200105, 200108 thru 200111, 200113 thru 200118, and 200121.

CANCELLATION / REVISION: Not applicable.

REASON: It has been found in flight the occurrence of elevator control jamming due to interference between the main landing gear lever and the nut that fix the rod end of elevator control rod. Since this condition may occur in other airplanes of the same type and affects flight safety, an immediate corrective action is required. Thus, sufficient reason exists to request compliance with this EAD in the indicated time limit without prior notice.

REQUIRED ACTION: One-time inspection to be accomplished in the travel area of elevator control rod under horizontal console; and correction, if necessary.

COMPLIANCE: Required as indicated below, unless already accomplished.

Before next flight after the effective date of this EAD, perform an one-time inspection in the main landing gear lever and elevator control rod. If no interference or warping is found in the main landing gear lever and the gaps are in accordance with dimensions specified in the Service Bulletin Aeromot Nº 200-27-078, the aircraft can be released for flight. The CTA shall be immediately informed about the results of the inspection.

The detailed instructions and procedures to accomplish this EAD are described in the Aeromot Service Bulletin No. 200-27-078, original issue, or further revisions approved by the CTA. Record compliance with this EAD in the applicable maintenance log book.

CONTACT: For additional information, please contact CTA-IFI-FDH, P.O. Box 6001, 12231-970 - São José dos Campos-SP, Brazil, telephone: 55 (12) 3941-4600, fax: 55 (12) 3941-4766.

APPROVAL: Original in Portuguese language available in the files of the Registro Geral de Aeronavegabilidade (RGA/TE-1/STE) of the Departamento de Aviação Civil. Signed by:

CIVIL AVIATION SAFETY AUTHORITY
02 NOV 2001
AVIATION INFORMATION SECTION

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SERVICE BULLETIN

Title: FLIGHT CONTROL – INSPECTION OF ELEVATOR DRIVING ROD UNDER HORIZONTAL CONSOLE

1. PLANNING INFORMATION:

1.1 Effectivity

Model:
AMT-100

Serial Number:
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 (re-motorized 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

1.2 Reason

Bending or warping in main landing gear lever could result in chafing and/or interference with the elevator driving rod movement.

1.3 Description – Compliance Recommendation

1.3.1 This Service Bulletin establish the inspection to be accomplished in the movement area of elevator driving rod under horizontal console.

1.3.2 AEROMOT recommends the accomplishment of this inspection before next flight.

1.4 Approval

CTA/IFI - Divisão de Homologação Aeronáutica.

1.5 Manpower Required

Approximately 2 Man-Hour.

1.6 Material and Availability

Contact AEROMOT, through Phone: +55 (051) 371-1644, Fax: +55 (051) 371-1655 or e-mail: aeroind@aeromot.com.br to obtain the following parts, if necessary:

Item	P/N	Description	Qty
01	15315	Support Guide	01
02	15316	Lever	01
03	27099	Screw	01
04	27304/8	Nut	01



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1.7 Tooling

Standard tools.

1.8 Weight and Balance

Not affected.

1.9 Electrical Charge Data

Not affected.

1.10 References

Not applicable.

1.11 Other Publications Affected

Not applicable.

2. ACCOMPLISHMENT INSTRUCTIONS:

2.1 Place the airplane on jacks.

2.2 Remove the cover of horizontal console (Parts Catalog fig. 32 item 14).

2.3 Retract the landing gear.

2.4 Push the control stick (elevator driving) slowly forward and check if the gap between landing gear lever (in retracted and caged position) and nut that fix the terminal rod of elevator driving is about 3 to 5 mm in accordance with detail "A" of figure #1.

2.5 Check if the gap between screw head and the trim cable cap is about 3 to 5 mm in accordance with detail "A" of figure #1.

2.6 Check the installation position of grounding cable; if the grounding cable washer is installed close to nut, remove and install close to screw head; check the gaps again.

2.7 Check if there are signs of chafing of nut (that fix the terminal of rod of elevator driving) in the landing gear lever P/N 15316; if there are signs of chafing, remove the support guide P/N 15315 and inspect its flatness and if there is gap in the bearing fitting (See detail B of figure #2). Replace non conformance parts .



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- 2.8 If no interference or warping is found in the main landing gear lever and the gaps are in accordance with dimensions specified in figures in attached, the airplane can be approved to flight.

Note: Contact AEROMOT (fone: 0XX 51 3371.1644) to obtain additional information if necessary.

3. MATERIAL INFORMATION:

NEW P/N	QTY.	DESCRIPTION	OLD P/N	INSTRUCTIONS
15315	01	Guide Support	-	Replace if necessary
15316	01	Lever	-	Replace if necessary
27099	01	Screw	-	Replace if necessary
27304/8	01	Nut	-	Replace if necessary

