



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2025-08-01R1

Effective Date: 11 Aug. 2025

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

AD No. 2025-08-01R1 - 39-1589.

APPLICABILITY:

This Airworthiness Directive (AD) is applicable to the aircraft models listed in Table 1, operating in Brazil, equipped with wheel hubs, brake discs, brake actuators, or brake assemblies manufactured by H8 ALS Indústria Aeronáutica LTDA (formerly ALS Indústria Aeronáutica LTDA), with CNPJ 03.619.857/0001-82, with a manufacturing date after October 09, 2003.

Table 1 – Applicability – Aircraft Models.

Manufacturer	Model
EMBRAER	EMB-110 Series; EMB-121A, EMB-121A1; EMB-200, EMB-200A, EMB-201, EMB-201A, EMB-202, EMB-202A, EMB-203; EMB-710, EMB-710C, EMB-710D; EMB-711, EMB-711A, EMB-711B, EMB-711C, EMB-711ST, EMB-711T, EMB-712; EMB-720C, EMB-720D, EMB-721C, EMB-721D; EMB-810C, EMB-810D, EMB-820C; 56 Series “Paulistinha”
CESSNA	150, 172, 175, 177, 180, 182, 185, 188, 205, 206, 207, 210, 305, 336, 337, 401, 402, 411 Series.
PIPER	PA-18, PA-22, PA-23, PA-24, PA-28, PA-28R, PA-30, PA-31, PA-32, PA-32R, PA-34, PA-44 Series.
CENTRO TECNICO AEROESPACIAL	CAP-4 (Paulistinha).
AERO BOERO	AB-115, AB-180.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2025-08-01 - 38-1587, effective on 04 August 2025, and it is being revised to indicate that brake discs, brake actuators, or brake assemblies supplied directly to Embraer S.A. are not affected by the condition described in this AD.

REASON:

This AD was prompted by Anac's investigation, which identified unapproved parts sold by the "H8 ALS" organization. The lack of proper certification for these parts may result in the absence of adequate quality and performance standards required for aeronautical products.

Wheel hubs are essential to the safe operation of aircraft. They support the weight of the aircraft during take-off and landing operations, as well as cushioning impacts during landing operations. Brake discs, actuators, and assemblies are essential to ensuring braking and directional control of the aircraft during ground operations. Therefore, the installation of unapproved parts can result in the aircraft leaving the runway or losing directional control during ground operations.

Since this condition may occur in other airplanes and affect flight safety, corrective action is required. Thus, sufficient reason exists to request compliance with this AD within the indicated time limit.

REQUIRED ACTION:

Verification of aircraft maintenance records and replacement of parts, as applicable.

COMPLIANCE:

Required as indicated below, unless already accomplished.

(a) Verification of maintenance records

During the next 100-hour or 12-month inspection, or during the next airworthiness check, whichever occurs first, from the effective date of this AD, verify the aircraft maintenance records for the installation of wheel hubs, brake discs, brake actuators, or brake assemblies manufactured by H8 ALS Indústria Aeronáutica LTDA (formerly ALS Indústria Aeronáutica LTDA), CNPJ 03.619.857/0001-82, with a manufacturing date after October 09, 2003.

(b) Replacement of brake disc, brake actuator, or brake assembly

(1) If the maintenance records provide objective evidence of the installation of any brake disc, brake actuator, or brake assembly manufactured by H8 ALS Indústria Aeronáutica LTDA (formerly ALS Indústria Aeronáutica LTDA), CNPJ 03.619.857/0001-82, with a manufacturing date after October 09, 2003, replace the affected part with an unaffected part within the next 50 flight hours or 6 months, whichever occurs first.

NOTE 1: An affected part is one that has been installed or kept in stock and manufactured by H8 ALS Indústria Aeronáutica LTDA (formerly ALS Indústria Aeronáutica LTDA), CNPJ 03.619.857/0001-82, with a manufacturing date after October 09, 2003.

NOTE 2: For the purposes of this AD, an unaffected part is one that does not fall under the above definition and complies with applicable part certification requirements.

(2) Brake disc, brake actuator or brake assembly manufactured by H8 ALS Indústria Aeronáutica LTDA (formerly ALS Indústria Aeronáutica LTDA) and supplied directly to Embraer S.A are not affected by the condition described in this AD. If there is a Certificate of Conformity (CoC) issued by Embraer S.A, verify the originality of the certificate with Embraer S.A. If there is a CoC issued by Embraer S.A without indication of fraud, no action is required by this paragraph.

(c) Inspection and replacement of wheel hub

(1) If the maintenance records provide objective evidence of the installation of any wheel hub manufactured by H8 ALS Indústria Aeronáutica LTDA (formerly ALS Indústria Aeronáutica LTDA), CNPJ 03.619.857/0001-82, with a manufacturing date after October 9, 2003, inspect the wheel hub according to the instructions for continued Airworthiness (ICA) prepared by the aircraft manufacturer every 50 flight hours or 6 months, whichever occurs first.

(2) Replace the wheel hub manufactured by H8 ALS Indústria Aeronáutica LTDA (formerly ALS Indústria Aeronáutica LTDA), CNPJ 03.619.857/0001-82, with a manufacturing date after October 9, 2003, within 200 flight hours or 24 months, whichever occurs first. The replacement of the

wheel hub with an unaffected part is a terminal action for the repetitive inspections of paragraph (c)(1).

(3) Wheel hubs manufactured by H8 ALS Indústria Aeronáutica LTDA (formerly ALS Indústria Aeronáutica LTDA) and supplied directly to Embraer S.A are not affected by the condition described in this AD. If there is a Certificate of Conformity (CoC) issued by Embraer S.A, verify the originality of the certificate with Embraer S.A. If there is a CoC issued by Embraer S.A without indication of fraud, no action is required by this paragraph.

(d) Prohibition of part installation

From the effective date of this AD, it is prohibited to install affected parts on aircraft in operation.

(e) Disposal of ineligible parts

If affected parts are identified in compliance with paragraphs (b), (c), and (d) of this AD, discard and mutilate them.

(f) Alternative methods of compliance (AMOCs).

A different method or a different compliance time, with the requirements of this AD, may be used if approved by the Manager of the Continuing Airworthiness Technical Branch (GTAC) of ANAC.

Record compliance with this AD in the applicable maintenance log book.

CONTACT:

For additional technical information, contact:

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APPROVAL:

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NOTA: Original in Portuguese language signed and available in the files of the Continuing Airworthiness Technical Branch (GGCP) of the National Civil Aviation Agency (ANAC).