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## No. CF-90-20

### AIRWORTHINESS DIRECTIVE

The following airworthiness directive (AD) may be applicable to an aircraft which our records indicate is registered in your name. ADs are issued pursuant to Canadian Aviation Regulation (CAR) 593. Pursuant to CAR 605.84 and the further details of CAR Standard 625, Appendix H, the continuing airworthiness of a Canadian registered aircraft is contingent upon compliance with all applicable ADs. Failure to comply with the requirements of an AD may invalidate the flight authorization of the aircraft. Alternative means of compliance shall be applied for in accordance with CAR 605.84 and the above- referenced Standard.

This AD has been issued by the Continuing Airworthiness Division (AARDG), Aircraft Certification Branch, Transport Canada, Ottawa, telephone (613) 952-4357.

### CF-90-20 EMBRAER

Applies to all Empresa Brasileira de Aeronautica S.A. (Embraer) Model EMB-110P1 and EMB-110P2 aircraft.

Compliance is required as indicated.

There have been several incidents during takeoff of inadvertent opening of the front right emergency exit due to deficiencies in the exit door latching mechanism and a disconnected safety restraining cable which prevents the door from opening completely. In one of the incidents, the door damaged a propeller.

To prevent the front right forward emergency exit from opening during flight, accomplish the following:

A. Within the next 15 days after the effective date of this directive, revise the Centro Técnico Aeroespacial (CTA) approved airplane flight manual - Embraer Publication No. AFM-110P1/381, Section 2: "NORMAL AND ABNORMAL PROCEDURES", sub-section: "BEFORE STARTING", item B.1: "CABIN INSPECTION" - by adding the following pre-flight checks for both passenger and cargo versions:

1) For model EMB-110 aircraft, serial numbers 110146, 110153, 110156, 110157, 110161, 110165, 110184, 110186, 110189, 110190, 110192 through 110283, and 110285 through 110346:

"Front right emergency exit - Check safety restraining cable for proper installation."

2) For all model EMB-110 aircraft, except those listed in paragraph A.1 above:

"Front right emergency exit - Check safety restraining cable for proper installation. Visually ensure that locking pins are properly engaged."

B. Within the next 5 months after the effective date of this directive, for EMB-110 aircraft, serial numbers 110146, 110153, 110156, 110157, 110161, 110165, 110184, 110186, 110189, 110190, 110192 through 110283, and 110285 through 110346:

1) Modify the right forward emergency exit to incorporate a stronger actuating handle stop, install longer locking pins, and modify the locking pin guides to permit visual inspection by the crew. This is to be accomplished in accordance with Embraer Service Bulletin No. 110-52-030 dated 30 November 1981; and

2) After the modification of paragraph B.1 above has been accomplished, revise the CTA approved airplane flight manual - Embraer Publication No. AFM-110P1/381, Section 2: "NORMAL AND ABNORMAL PROCEDURES", sub-section: "BEFORE STARTING" item B.1: "CABIN INSPECTION" - by adding the following to the entries specified in paragraph A.1 above:

"Visually ensure that locking pins are properly engaged."

Alternative means of compliance with the requirements of this directive may be used only if approved by the Director, Airworthiness Branch, Transport Canada, Ottawa. Any application should be made to the appropriate regional office.

This directive becomes effective 15 October 1990.



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Pursuant to CAR 202.51 the registered owner of a Canadian aircraft shall, within seven days, notify the Minister in writing of any change of his or her name or address. To request a change of address, contact the Civil Aviation Communications Centre (AARC) at Place de Ville, Ottawa, Ontario K1A 0N8, or 1-800-305-2059, or <http://www.tc.gc.ca/civilaviation/communications/centre/address.asp>.

24-0022 (01-2001)

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