AIRWORTHINESS DIRECTIVE

For the reasons set out in the background section, the CASA delegate whose signature appears below issues the following Airworthiness Directive (AD) under subregulation 39.001(1) of CASR 1998. The AD requires that the action set out in the requirement section (being action that the delegate considers necessary to correct the unsafe condition) be taken in relation to the aircraft or aeronautical product mentioned in the applicability section: (a) in the circumstances mentioned in the requirement section; and (b) in accordance with the instructions set out in the requirement section; and (c) at the time mentioned in the compliance section.

Embraer EMB-135 and EMB-145 Series Aeroplanes

AD/EMB-145/1 State of Design ADs 8/2008 DM

Applicability: All EMB-145 series aeroplanes.

Requirement:

1. Determine the applicability of the Brazilian Agência Nacional de Aviação Civil (ANAC) or its predecessor the Departamento de Aviação Civil (DAC) Airworthiness Directives (AD) listed in Table 1.

2. If it is determined that an ANAC or DAC AD listed in Table 1 is applicable and has not been previously accomplished, perform the actions required by that AD.

Table 1

AD Number	Issue Date	Title
97-07-02R1	15 January 1998	Pilot Valve Harness Tube
97-07-12R2	11 February 2003	Dynamic Pressure Tubing of Main Pitot System
97-09-02	12 September 1997	Trust Reverser Lock Door Bracket
97-09-04	25 September 1997	Generator Cables and Hydraulic Hoses Chaffing
97-10-02	13 October 1997	MLG Shock Absorber Plain Bearing
97-10-04R1	21 July 2005	Spoilers and Speed Brake Actuators
98-01-03	15 January 1998	Hydraulic Line Tube
98-01-04	15 January 1998	Horizontal Stabilizer Anti-Icing Valve System
98-05-01R1	08 July 1999	Nose Landing Gear
98-05-02	28 May 1998	Servo and Elevator Tab Fitting Bolts
98-07-01	06 July 1998	Hydraulic Accumulators

Embraer EMB-135 and EMB-145 Series Aeroplanes

AD/EMB-145/1 (continued)

98-09-01R1	15 March 1999	Main Landing Gear Manoeuvring Actuator
98-11-01R1	08.May.2000	Engine Bleed Line
98-12-01R1	26 May 1999	Honeywell Primus 1000 Automatic Flight Controls
1999-01-02R1	15 March 1999	Reinforcement of Wing Rib 15
1999-04-01R2	30 May 2000	Engine Bleed Air Check Valve
1999-06-01R2	19 July1999	VSI Oscillation and IAS Fluctuations
1999-09-01R2	01 May 2000	Elevator Tabs
E1999-10-01	20 October 1999	Flight Director/Autopilot
1999-12-01	03 January 2000	Placard with New Oil Pressure Limit
2000-04-01R2	28 May 2001	Engine Bleed Air Valve
E2000-05-01	25 May 2000	Spring Tab and Servo Tab Hinge Fitting
2000-06-01	03 July 2000	Lamp/Smoke Detector Cover Joints
2000-07-01	20 August 2000	Brake Control Unit
E2000-09-01	01 September 2000	GAMAH Couplings at the Fuel System Tubes
2000-09-02	16 October .2000	Engine Maximum Oil Pressure Limit
2000-10-02R2	22 February 2002	Strap Configuration of Connectors Pins IC-600
2001-01-01R1	27 March 2001	Pitch Trim Command
2001-02-01	21 February 2001	Engine Fire Extinguishing System Tubing
2001-04-01	23 Apr 2001	Engines and APU Fire Extinguisher Bottles
2001-04-02R3	13 July 2007	In-Flight APU Starts
2001-04-03	09 May 2001	EICAS and FADEC Software Versions
2001-05-01R2	22 April 2003	TAT # 2 Relay Oxidation
2001-06-03R2	24 June 2002	Stabilizer Bonding Jumpers
2001-09-01R2	08 January 2003	Engines and APU Fire Extinguishing Bottles

Embraer EMB-135 and EMB-145 Series Aeroplanes

AD/EMB-145/1 (continued)

2001-09-03	02 October 2001	Engine Air Bleed Tube
2001-09-04	10 October 2001	ATS Output Shaft
2001-12-02R1	30 September 2005	RVSM Operation
2001-12-03R1	04 February 2002	Trunnion Fitting Web
2001-12-04R2	27 May 2002	Horizontal Stabilizer Control Unit
2002-01-01R3	08 November 2002	Elevator Control System
2002-03-01R3	06 December 2004	Nose Landing Gear Wheel Nuts
2002-05-01R2	06 January 2003	APU Exhaust Silencer
2002-06-01R1	08 November 2002	Pitot 1 and 2 Circuit Drain Valves
E2002-08-01	28 August 2002	Main Landing Gear Trailing Arm Cardan
2002-10-03R2	05 January 2005	Connections of FADEC Interface Resistor Modules
2002-12-01R1	20 July 2004	Corrosion on the MLG Leg Strut Bushing Housings
E2002-12-03	20 December 2002	Electromechanical Elevators Gust Lock System
2003-01-02R1	12 March 2003	Glide Slope Antenna and Electrical Connectors
2003-03-01R1	14 October 2004	Pitch Trim System Failures
2003-06-01R1	28 July 2004	Pressure Refuelling
2003-07-01R1	23 December 2003	Air Turbine Starter
2004-01-01	27 January 2004	Additional Indication Device to the Clear Ice System
2004-01-02R2	29 November 2004	Modification of the TAT Sensor Heating System
2004-01-03	29 January 2004	Replacement of the Hydraulic Pump
2004-01-05R1	01 June 2004	Tail Boom Strobe Light Electrical Harness
2004-01-07R2	22 December 2005	Rudder II Control Rods

Embraer EMB-135 and EMB-145 Series Aeroplanes

AD/EMB-145/1 (continued)

2004-05-02	02 June 2004	PSU Printed Circuit Board
2004-05-03R1	16 September 2005	Passenger Seat Tracks Attachment Screws
2004-10-01	30 October 2004	Engine Fire Handle Internal Circuit
2004-11-01	28 November 2004	Failure of HSCU Channels
2004-12-02R1	29 June 2005	Backup Pressure Relief Valve
2004-12-03R1	27 July 2006	Digital Flight Data Recorder (DFDR)
2005-04-02	30 April 2005	Steering System Logic
2005-04-03	30 April 2005	APU Firewall
2005-08-04R1	27 July 2006	Pitot Heating Relay
2005-08-05	06 September 2005	APU Compartment Drain System
2005-10-04	17 November 2005	Aileron Dumper Rod Ends
2006-01-01R1	23 May 2006	Passenger Seat Tracks
2006-02-01	24 February 2006	Takeoff Warnings
2006-02-03R2	08 October 2006	Electrical Bonding of the Fuel Tubings
2006-05-01	23 May 2006	Windshield Temperature Controller Power Cable Terminals
2006-07-01	31 July 2006	Cable Guard Pins of Aileron System
2007-05-01R1	04 July 2007	Rework of the Forward Fuselage Structure
2007-07-01	21 August 2007	MRBR Temporary Revision 10-5
2007-07-02	21 August 2007	MRBR Temporary Revision 10-6
2007-07-03	21 August 2007	APU Firewall

Note : ANAC and DAC ADs may be accessed via the internet at the following URL:

http://www.anac.gov.br/certificacao/da/DAE.asp

Compliance: For Requirements 1 and 2 - Within 30 days after the effective date of this Directive or prior to the issue of a certificate of airworthiness, which ever occurs later.

Embraer EMB-135 and EMB-145 Series Aeroplanes

AD/EMB-145/1 (continued)

This Airworthiness Directive becomes effective on 20 June 2008.

Background: The ANAC and DAC ADs listed in Table 1 of this Directive require one time actions for which the compliance date and/or period has passed. CASA has determined that these ADs may be applicable to recently registered Australian aircraft. This Directive is issued to ensure all State of Design ADs are complied with.

CASA appreciates that, due to date of aircraft manufacture or aircraft configuration and modification status, not all the ADs listed in Table 1 will be applicable to all EMB-145 series aeroplanes.

James Coyne
Delegate of the Civil Aviation Safety Authority

13 June 2008