

Boeing 737 Series Aeroplanes

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 39.1 (1) of CAR 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.

AD/B737/143 Fuel Low Pressure Switches and Boost Pumps 7/2000

Applicability: Model 737-100, -200, -300, -400 and -500 series aeroplanes line number 1 through 3002 inclusive.

- Requirement:**
1. Inspect main tank fuel boost pumps to determine if one or more pumps were manufactured by General Electric Company (GEC) of the United Kingdom. If GEC pumps are fitted test each pump in accordance with instructions in Boeing Alert Service Bulletin 737-28A1114 Revision 2 dated January 28, 1999. If the fuel boost pump output pressure is less than 23 pounds per square inch gauge (psig) as measured at the inlet to the engine fuel pump; or less than 36 psig as measured at the fuel boost pump low pressure switch, replace the fuel boost pump with a new or serviceable fuel pump in accordance with the Alert SB.
 2. No aircraft shall be dispatched with any main fuel boost pump inoperative unless initial testing and any follow on corrective action in accordance with Requirement 1 have been complied with.
 3. Replace all 4 low pressure switches installed downstream of the main fuel boost pumps with higher threshold low pressure switches in accordance with Boeing SB 737-28A1114 Revision 2.

Note : FAA AD 2000-04-02 Amendment 39-11584 refers.

- Compliance:**
1. Prior to the accumulation of 3,000 flight hours or within 1 year from the aircraft date of manufacture, or within 90 days from the effective date of this Directive whichever occurs first. Thereafter, retest at intervals not exceeding 6 months time in service until Requirement 3 has been complied with.
 2. Prior to further flight after the effective date of this Directive.
 3. Within 2 years time in service from the effective date of this Directive.

This Airworthiness Directive becomes effective on 13 July 2000.

COMMONWEALTH OF AUSTRALIA
CIVIL AVIATION SAFETY AUTHORITY
SCHEDULE OF AIRWORTHINESS DIRECTIVES

(Civil Aviation Regulations 1998), PART 39 - 105

Background: The manufacturer has advised that 5 engine rollbacks or flameouts occurred due to unsatisfactory performance of the fuel boost pumps. Also, the existing low pressure indication system did not show that fuel pressure from the boost pumps was too low.



Eugene Paul Holzapfel
Delegate of the Civil Aviation Safety Authority

30 May 2000