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## AIRWORTHINESS DIRECTIVE

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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 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.

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### Boeing 737 Series Aeroplanes

#### **AD/B737/226      Main Fuel Tank Aft Fuel Boost Pump Wiring      8/2004**

**Applicability:** Model 737-600, 737-700, 737-700C, 737-800 and 737-900 series aeroplanes, as listed in Boeing Alert Service Bulletin (ASB) 737-28A1148, Revision 2, dated 18 December 2003.

*Note 1: The term 'service bulletin', as used in this Directive, means the Accomplishment Instructions of Boeing Alert Service Bulletin 737-28A1148, Revision 2, dated 18 December 2003.*

- Requirement**
1. For aeroplanes listed in the service bulletin as Groups 1, 2, 3 and 4 on which Boeing ASB 737-28A1148, dated 14 September 2000, has been accomplished and for aeroplanes listed in the service bulletin as Groups 5, 6 and 7 - Install screws and spacers to secure the applicable wire bundles for the aft fuel boost pumps of the main fuel tanks in accordance with the service bulletin.
  2. For aeroplanes listed in the service bulletin as Groups 1 and 2 on which Boeing ASB 737-28A1148, dated 14 September 2000, has not been accomplished - Perform a general visual inspection of the applicable wire bundles for the aft fuel boost pumps of the main fuel tanks for chafing or other damage in accordance with the service bulletin.
  3. If any discrepancies were noted during the Requirement 2 visual inspection, perform any applicable corrective action together with installing a new bracket, clamp and spacers to secure the wire bundles in accordance with the service bulletin.
  4. For aeroplanes listed in the service bulletin as Groups 3 and 4 on which ASB 737-28A1148, dated 14 September 2000, has not been accomplished - Perform, in accordance with the service bulletin, a general visual inspection of the applicable wire bundles for the aft fuel boost pumps of the main fuel tanks to determine if the wire bundle is secured with a clamp, if the bundles are clamped no further action is necessary.
  5. If, the Requirement 4 inspection reveals that the wire bundles are not clamped, in accordance with the service bulletin, repair the wire bundle if chaffing has occurred and install a new bracket, clamp and spacers to ensure sufficient clearance between the rear spar and structure and the wire bundles.

## Boeing 737 Series Aeroplanes

AD/B737/226 (continued)

Actions accomplished before the effective date of this Directive per Boeing ASB 737-28A1148, Revision 1, dated 22 August 2002, are considered acceptable for compliance with the corresponding action specified in this Directive.

*Note 2: For the purposes of this Directive, a general visual inspection is defined as: "A visual examination of an interior or exterior area, installation or assembly to detect obvious damage, failure or irregularity. This level of inspection is made from within touching distance unless otherwise specified. A mirror may be necessary to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hangar lighting, flashlight or droplight and may require removal or opening of access panels or doors. Stands, ladders or platforms may be required to gain proximity to the area being checked."*

: *Note 3: FAA AD 2004-11-11 Amdt 39-13657 refers.*

Compliance: For Requirements 1, 2 and 4 - Within six months after the effective date of this Directive,

For Requirements 3 and 5 - Prior to further flight after completing the applicable inspection.

This Airworthiness Directive becomes effective on 5 August 2004.

Background: This Directive requires, for some aeroplanes, installation of screws and spacers to secure the wire bundles for the aft fuel boost pumps of the main fuel tanks. For other aeroplanes a general visual inspection of the wire bundles is required to determine if the wire bundles are clamped and/or damaged; further investigation, as applicable; repair of any damage; and installation of applicable brackets, clamps, and spacers to secure the wire bundles. This action is necessary to prevent electrical arcing in a fuel leakage zone, which could result in an uncontrolled fire.



James Coyne  
Delegate of the Civil Aviation Safety Authority

23 June 2004