



AIRWORTHINESS DIRECTIVE

This Airworthiness Directive (AD) is issued pursuant to Canadian Aviation Regulation (CAR) 521.427. No person shall conduct a take-off or permit a take-off to be conducted in an aircraft that is in their legal custody and control, unless the requirements of CAR 605.84 pertaining to ADs are met. Standard 625 - Aircraft Equipment and Maintenance Standards Appendix H provides information concerning alternative means of compliance (AMOC) with ADs.

Number:

CF-2021-24

Effective Date:

4 August 2021

ATA:

25

Type Certificate:

A-224, A-273

Subject:

Cabin Equipment/Furnishings – Defective Baggage Nets

Applicability:

Diamond Aircraft Industries Inc. aeroplanes:

Model DA 40, DA 40 D, DA 40 F and DA 40 NG, all serial numbers,

Model DA 62, all serial numbers.

Compliance:

As indicated below, unless already accomplished.

Background:

Diamond Aircraft Industries Inc. (DAI) has received reports of defective buckles installed as part of the baggage nets on DA 40 NG and DA 62 aeroplanes. An investigation revealed a quality escape in the manufacturing of the Quick Fix Baggage Net Assembly, part number (P/N) D44-2550-90-00 and P/N D67-2550-90-00_02, by the supplier. P/N D44-2550-90-00 baggage nets can also be installed on DA 40, DA 40 D and DA 40 F aeroplanes. The baggage nets installed with defective buckles may not maintain sufficient holding force to restrain the baggage or cargo that is carried in the same compartment as passengers, and consequently, may not provide adequate means to protect the passengers from injury.

This condition, if not corrected, could result in the failure of the baggage net to restrain the baggage or cargo, which could lead to injury to the occupants in the case of an emergency landing.

DAI undertook a voluntary campaign to replace all defective Quick Fix Baggage Net Assemblies. However, DAI was unable to complete the campaign in its entirety, and therefore, a number of aeroplanes with defective baggage nets that have not yet been replaced, remain in operation.

As a result, DAI issued Mandatory Service Bulletin (MSB) 40-093, MSB D4-110, MSB F4-039, MSB 40NG-065 and MSB 62-028, providing accomplishment instructions to replace the defective Quick Fix Baggage Net Assemblies.

This AD mandates the removal and replacement of the affected baggage nets. This AD also renders any affected baggage nets not eligible for installation as a replacement part on DA 40, DA 40 D, DA 40 F, DA 40 NG and DA 62 aeroplanes.

Corrective Actions:

For the purpose of this AD, the following definitions apply:

The applicable MSB: MSB 40-093, Revision 0, dated 6 July 2021, MSB D4-110, Revision 0, 6 July 2021, MSB F4-039, Revision 0, dated 6 July 2021, MSB 40NG-065, Revision 1, dated 6 July 2021, MSB 62-028, Revision 1, dated 6 July 2021, as applicable, or later revisions of these MSBs approved by the Chief, Continuing Airworthiness, Transport Canada.

Affected baggage net: DAI Quick Fix Baggage Net Assemblies P/N D44-2550-90-00 with a date of manufacture of December 2015, November 2016 and March 2017, and P/N D67-2550-90-00_02 with a date of manufacture of June 2016.

Serviceable baggage net: Any Quick Fix Baggage Net Assemblies, eligible for installation, which are not an affected baggage net.

Part I – Removal and Replacement of Affected Baggage Net

- A. At the next scheduled inspection or before accumulating 50 hours air time, whichever occurs first, from the effective date of this AD, identify the date of manufacture of the installed Quick Fix Baggage Net Assembly P/N D44-2550-90-00 or D67-2550-90-00_02, as applicable, to determine if an affected baggage net is installed on the aeroplane. The date of manufacture can be found on the label and identified with the abbreviation DMF.
- B. If an affected baggage net is installed, before further flight, remove the affected baggage net from the aeroplane.
- C. Prior to the carriage of baggage or cargo in the baggage compartment, replace the affected baggage net with a serviceable baggage net in accordance with the Accomplishment Instructions Paragraph I.9 of the applicable MSB.

Part II – Part Installation Prohibition

As of the effective date of this AD, an affected baggage net is not eligible for installation as a replacement part on DA 40, DA 40 D, DA 40 F, DA 40 NG and DA 62 aeroplanes.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jean Grenier
Acting Chief, Continuing Airworthiness
Issued on 21 July 2021

Contact:

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