



# AIRWORTHINESS DIRECTIVE

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*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-2020-42

**Effective Date:**

30 October 2020

**ATA:**

53

**Type Certificate:**

A-236

**Subject:**

Fuselage – Application of Additional Protection on Waste Box to Inhibit Future Corrosion Development

**Applicability:**

Airbus Canada Limited Partnership (formerly C Series Aircraft Limited Partnership, Bombardier Inc.) aeroplanes:

Model BD-500-1A10, serial numbers 50001 through 50018 and 50020 through 50047,

Model BD-500-1A11, serial numbers 55001 through 55016 and 55018 through 55063.

**Compliance:**

For model BD-500-1A10 aeroplanes: Within 14 200 flight cycles or 56 months from the aeroplane date of manufacture, as identified on the identification plate of the aeroplane, whichever occurs first, unless already accomplished.

For model BD-500-1A11 aeroplanes: Within 9900 flight cycles or 56 months from the aeroplane date of manufacture, as identified on the identification plate of the aeroplane, whichever occurs first, unless already accomplished.

**Background:**

Corrosion due to contamination from waste valve leakage has been reported on the waste box, waste access doubler, and waste service door 146BR at the rear fuselage. Some corrosion findings have been severe enough to require structural repairs or replacement of the affected parts. Uncorrected, this corrosion can lead to cracks or holes in the waste box or aeroplane skin, which can lead to cabin pressure leakage or catastrophic structural damage.

Airbus Canada Limited Partnership has released a Service Bulletin (SB) to apply protective coatings on the waste box, waste access doubler, and waste service door 146BR to inhibit future corrosion development. This SB also instructs to inspect for corrosion and to repair any corrosion found before applying these protective coatings. To mitigate the risks associated with corrosion on the waste box and waste access doubler, this AD requires the actions specified in the SB to be performed.

**Corrective Actions:**

Inspect the waste box, waste access doubler, and waste service door 146BR for corrosion, repair any corrosion found, then apply corrosion protection in accordance with Airbus Canada Limited Partnership SB BD500-536004 Issue 001, dated 13 August 2020, or later revisions approved by the Chief, Continuing Airworthiness, Transport Canada.

**Authorization:**

For the Minister of Transport,

*ORIGINAL SIGNED BY*

Rémy Knoerr  
Chief, Continuing Airworthiness  
Issued on 16 October 2020

**Contact:**

Hilary Ross, Continuing Airworthiness, Ottawa, telephone 888-663-3639, facsimile 613-996-9178 or e-mail [AD-CN@tc.gc.ca](mailto:AD-CN@tc.gc.ca) or any Transport Canada Centre.