# Emergency Airworthiness Directive

**AD No.: 2022-0068-E**

**Issued: 14 April 2022**

Note: This Emergency Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EU) 2018/1139 on behalf of the European Union, its Member States and of the European third countries that participate in the activities of EASA under Article 129 of that Regulation.

This AD is issued in accordance with Regulation (EU) 748/2012, Part 21.A.3B. In accordance with Regulation (EU) 1321/2014 Annex I, Part M.A.301 or Annex Vb Part ML.A.301, as applicable, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [Regulation (EU) 1321/2014 Annex I, Part M.A.303 or Annex Vb Part ML.A.303, as applicable] or agreed with the Authority of the State of Registry [Regulation (EU) 2018/1139, Article 71 exemption].

**Design Approval Holder's Name:**

DASSAULT AVIATION

**Type/Model designation(s):**

Falcon 2000 and Falcon 2000EX aeroplanes

Effective Date: 16 April 2022

TCDS Number(s): EASA.A.008

Foreign AD: Not applicable

Supersedure: None

## ATA 32 – Landing Gear – Brake Control System / Servo-Valve – Relocation / Replacement

## ATA – Aircraft Flight Manual – Amendment

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**Manufacturer(s):**

Dassault Aviation (Dassault)

**Applicability:**

Falcon 2000 and Falcon 2000EX aeroplanes, all manufacturer serial numbers (MSN).

**Definitions:**

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

**The relocation SB**: Dassault Service Bulletin (SB) F2000-457 or SB F2000EX-495, as applicable.

**The replacement SB**: Dassault SB F2000-458 or SB F2000EX-496, as applicable.

**Affected part**: Brake servo-valves, having Part Number (P/N) C20103510-1 and serial number (s/n) listed in Appendix 1 of this AD, except those having C20103-32-077 indicated on the identification plate.

**Serviceable part**: Any brake servo-valve, eligible for installation, which is not an affected part.

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**The applicable AFM Supplement**: Dassault Aircraft Flight Manual (AFM) Supplement 35 for Falcon 2000, AFM Supplement 15 for Falcon 2000EX or AFM Supplement 20 for Falcon 2000EX EASy, as applicable.

**Groups**: Group 1 aeroplanes are those that have an affected part installed. Group 2 aeroplanes are those that do not have an affected parts installed.

## Reason:

Occurrences were reported of brake system failure during landing. Subsequent investigation determined the root cause to be a brake control-valve failure which was a result of application of inappropriate oiling during production and maintenance, affecting a specific batch of affected parts.

This condition, if not corrected, could lead to reduced braking performance during landing, possibly resulting in reduced control of, and consequent damage to, the aeroplane.

To address this unsafe condition, Dassault issued the relocation SB, to provide instructions to relocate the affected parts between the left-hand and right-hand brake control systems to ensure that at least one of the two independent brake systems has no affected parts. Additionally, Dassault issued the AFM Supplement to provide temporary information necessary to operate aircraft fitted with at least one brake servo valve. Dassault also issued the replacement SB, providing instructions to replace each affected part.

For the reasons described above, this AD requires relocation of the affected parts and amendment of the applicable AFM. This AD also requires replacement of each affected part with a serviceable part and introduces part installation limitations.

## Required Action(s) and Compliance Time(s):

Required as indicated, unless accomplished previously:

**Relocation**:

(1) For Group 1 aeroplanes: Within 5 flight cycles (FC) after the effective date of this AD, relocate each affected part in accordance with the instructions of the relocation SB.

**AFM Amendment**:

(2) For Group 1 aeroplanes: Within 5 FC after the effective date of this AD, amend the applicable AFM to incorporate the applicable AFM Supplement, inform all flight crews and, thereafter, operate the aeroplane accordingly.

(3) Amending the applicable AFM by incorporating a later revision, which includes the AFM change as required by this AD, is an acceptable method to comply with the requirements of paragraph (2) of this AD.

**Replacement**:

(4) For Group 1 aeroplanes: Within 12 months after the effective date of this AD, replace each affected part with a serviceable part and, concurrently, remove the AFM amendment as required by paragraph (2) of this AD in accordance with the instructions of the replacement SB.



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(5) Replacement of each affected part on an aeroplane as required by paragraph (4) of this AD is an acceptable method to comply with the requirements of paragraph (1) of this AD for that aeroplane. After replacement, the aeroplane becomes a Group 2 aeroplane.

**Parts Installation**:

(6) For Group 1 aeroplanes: From the effective date of this AD, it is allowed to install an affected part on an aeroplane, provided the part is installed in accordance with the instructions of the relocation SB and the AFM is amended as required by this AD.

(7) For Group 2 aeroplanes: From the effective date of this AD, do not install an affected part on any aeroplane.

## Ref. Publications:

Dassault SB F2000-457 original issue dated 13 April 2022.

Dassault SB F2000-458 original issue dated 13 April 2022.

Dassault SB F2000EX-495 original issue dated 13 April 2022.

Dassault SB F2000EX-496 original issue dated 13 April 2022

Dassault AFM Supplement 35 for Falcon 2000 dated 13 April 2022.

Dassault AFM Supplement 15 for Falcon 2000EX dated 13 April 2022.

Dassault AFM Supplement 20 for Falcon 2000EX EASy dated 13 April 2022.

The use of later approved revisions of the above-mentioned documents is acceptable for compliance with the requirements of this AD.

## Remarks:

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.

2. The results of the safety assessment have indicated the need for immediate publication and notification, without the full consultation process.

3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: ADs@easa.europa.eu.

4. Information about any failures, malfunctions, defects or other occurrences, which may be similar to the unsafe condition addressed by this AD, and which may occur, or have occurred on a product, part or appliance not affected by this AD, can be reported to the EU aviation safety reporting system. This may include reporting on the same or similar components, other than those covered by the design to which this AD applies, if the same unsafe condition can exist or may develop on an aircraft with those components installed. Such components may be



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installed under an FAA Parts Manufacturer Approval (PMA), Supplemental Type Certificate (STC) or other modification.

5. For any question concerning the technical content of the requirements in this AD, please contact your Dassault Falcon Technical Assistance:
   - For Europe, Middle East and Africa based operators: Hot Line: (33) 5 56 18 47 47
   - For USA, Canada and Mexico based operators: Help Desk: (1) 800-2FALCON (2325266)
   - All other areas: Help Desk: (1) 201 541 4747.

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Appendix 1 – Affected Parts – Brake Servo-Valve P/N C20103510-1 s/n

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|---|---|---|---|---|---|---|---|---|---|
| 00052 | 00100 | 00156 | 00251 | 00261 | 00380 | 00389 | 00421 | 00620 | 00658 |
| 00659 | 00738 | 00741 | 00795 | 00801 | 00821 | 00999 | 01000 | 01037 | 01042 |
| 01064 | 01072 | 01087 | 01088 | 01089 | 01141 | 01142 | 01177 | 01184 | 01228 |
| 01232 | 01248 | 01319 | 01339 | 01340 | 01343 | 01358 | 01359 | 01363 | 01368 |
| 01371 | 01385 | 01401 | 01414 | 01415 | 01416 | 01431 | 01461 | 01473 | 01490 |
| 01515 | 01518 | 01533 | 01599 | 01620 | 01708 | 01766 | 01767 | 01768 | 01769 |
| 01850 | 01930 | 01940 | 02065 | 02130 | 02176 | 02181 | 02207 | 02297 | 02332 |
| 02336 | 02536 | 02616 | 02645 | 02805 | 02806 | 02807 | 02808 | 02809 | 02810 |
| 02811 | 02812 | 02832 | 02833 | 02834 | 02835 | 02836 | 02851 | 02852 | 02853 |

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