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-2026-57

Effective Date:

13 November 2026

ATA:

24

Type Certificate:

A-224

Subject:

Electrical Power – Voter Switch Cycling while Restarting the Engine

Applicability:

Diamond Aircraft Industries Inc (DAI) Model DA40 NG Aeroplanes, All Serial Numbers.

Compliance:

Within 30 days from the effective date of this AD, unless already accomplished.

Background:

DAI investigated in-service events during which the DA40 NG aircraft experienced uncommanded engine shutdown when the Electronic Engine Control Unit (EECU) voter switch was set to “AUTO” mode. The investigation revealed that the failure of a 5A fuse on the active EECU channel led to the simulation of an erroneous Engine Master switch-off command to the EECU, which led to the uncommanded engine shutdown.

To mitigate the risk of uncommanded engine shutdown due to the erroneous simulation of the Engine Master switch, DAI has introduced additional instructions within Section 3.3.5 – Restarting the Engine in Flight in the DA 40NG Airplane Flight Manual (AFM) Revision 4 requiring pilots to cycle the EECU voter switch while attempting to restart the engine in flight. This would allow the pilot to manually switch to the second functional EECU channel and help restore engine operation.

This AD mandates incorporation of the procedures contained in Section 3.3.5 – Restarting the Engine in Flight as introduced by DA 40NG AFM Revision 4.

Corrective Actions:

A. Amend the DA 40NG AFM Document No 6.01.15-E to incorporate the procedures contained within Section 3.3.5 – Restarting the Engine in Flight as introduced by DA 40NG AFM Revision 4, approved by Transport Canada on 20 February 2025.
B. Thereafter, operate the aeroplane in accordance with the procedures contained within Section 3.3.5 of the DA 40NG AFM.
C. Incorporation of DA 40NG AFM Revision 4 prior to the effective date of this AD, or any later Transport Canada-approved revision of the DA 40NG AFM that contains the procedures specified in Section 3.3.5 – Restarting the Engine in Flight, also constitutes compliance with paragraph A of this AD.

Authorization:

For the Minister of Transport,

ORIGINAL SIGNED BY

Jenny Young
Chief, Continuing Airworthiness
Issued on 30 October 2026

Contact:

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