

**DEPARTMENT OF TRANSPORTATION****Federal Aviation Administration****14 CFR Part 39**

[Docket No. FAA-2021-1077; Project Identifier MCAI-2021-00607-A]

RIN 2120-AA64

**Airworthiness Directives; Diamond Aircraft Industries GmbH Airplanes**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** The FAA proposes to supersede Airworthiness Directive (AD) 2017-18-10, which applies to certain Diamond Aircraft Industries GmbH (DAI) Model DA 42, DA 42 M-NG, and DA 42 NG airplanes. AD 2017-18-10 requires modifying the flap control system, repetitively inspecting the flap bell crank, and replacing the flap bell crank as necessary. Since the FAA issued AD 2017-18-10, the European Union Aviation Safety Agency (EASA) superseded its mandatory continuing airworthiness information (MCAI) to correct an unsafe condition on these products. This proposed AD would retain the actions required by AD 2017-18-10, expand the applicability, and prohibit the installation of certain flap bell cranks. The FAA is proposing this AD to address the unsafe condition on these products.

**DATES:** The FAA must receive comments on this proposed AD by February 7, 2022.

**ADDRESSES:** You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- *Federal eRulemaking Portal:* Go to <https://www.regulations.gov>. Follow the instructions for submitting comments.

- *Fax:* (202) 493-2251.

- *Mail:* U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

- *Hand Delivery:* Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.

For service information identified in this NPRM, contact Diamond Aircraft Industries GmbH, N.A. Otto-Straße 5, A-2700 Wiener Neustadt, Austria; phone: +43 2622 26700; email: [office@diamond-air.at](mailto:office@diamond-air.at); website: <https://www.diamondaircraft.com>. You may view this service information at the Airworthiness Products Section,

Operational Safety Branch, FAA, 901 Locust, Kansas City, MO 64106. For information on the availability of this material at the FAA, call (817) 222-5110.

**Examining the AD Docket**

You may examine the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-1077; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this NPRM, the MCAI, any comments received, and other information. The street address for Docket Operations is listed above.

**FOR FURTHER INFORMATION CONTACT:**

Penelope Trease, Aviation Safety Engineer, General Aviation & Rotorcraft Section, International Validation Branch, FAA, 26805 E 68th Avenue, Denver, CO 80249; phone: (303) 342-1094; email: [penelope.trease@faa.gov](mailto:penelope.trease@faa.gov).

**SUPPLEMENTARY INFORMATION:****Comments Invited**

The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under **ADDRESSES**. Include “Docket No. FAA-2021-1077; Project Identifier MCAI-2021-00607-A” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend the proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to <https://www.regulations.gov>, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this proposed AD.

**Confidential Business Information**

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important

that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to Penelope Trease, Aviation Safety Engineer, General Aviation & Rotorcraft Section, International Validation Branch, FAA, 26805 E 68th Avenue, Denver, CO 80249. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

**Background**

The FAA issued AD 2017-18-10, Amendment 39-19019 (82 FR 42029, September 6, 2017) (AD 2017-18-10), for certain serial-numbered DAI Model DA 42, DA 42 M-NG, and DA 42 NG airplanes. AD 2017-18-10 was prompted by MCAI originated by EASA, which is the Technical Agent for the Member States of the European Union. EASA issued EASA AD 2017-0074, dated April 28, 2017, to identify and correct an unsafe condition identified as cracks and deformation on certain flap bell cranks.

AD 2017-18-10 requires modifying the flap control system by installing two spacers to replace a single long spacer, repetitively inspecting the flap bell crank, and replacing the flap bell crank with an improved part as necessary. The FAA issued AD 2017-18-10 to prevent failure of the flap bell crank, which could result in reduced control of the airplane.

**Actions Since AD 2017-18-10 Was Issued**

Since the FAA issued AD 2017-18-10, EASA superseded EASA AD 2017-0074, dated April 28, 2017, and issued EASA AD 2020-0008 dated January 20, 2020 (referred to after this as “the MCAI”). The MCAI states:

Occurrences were reported of finding cracks and deformation on certain flap bell cranks. Investigation results identified frequent high load conditions as the cause for these events.

This condition, if not detected and corrected, could lead to failure of the flap bell crank, possibly resulting in reduced control of the aeroplane.

To address this potential unsafe condition, DAI issued [Mandatory Service Bulletin] MSB 42-126/42NG-066 and the corresponding [Work Instructions] WI MSB 42-126/42NG-066 (single document), providing inspection and modification instructions. Consequently, EASA issued AD 2017-0074 to require modification of the flap control system by installing two spacers to

replace a single long spacer, repetitive inspections of the flap bell crank, and, depending on findings, replacement of the flap bell crank with an improved part. That [EASA] AD also provided an optional terminating action by installing an improved flap bell crank.

Since that [EASA] AD was issued, it was determined that early ‘Revisions’ of P/N D60-2757-11-00 flap bell cranks are no longer acceptable and should be removed from service. Prompted by that determination, DAI issued the applicable MSB, as defined in this [EASA] AD, to provide the relevant instructions.

For the reason described above, this [EASA] AD retains the requirements of EASA AD 2017-0074, which is superseded, expands the applicability, and requires removal from service of certain affected parts.

You may examine the MCAI in the AD docket at <https://www.regulations.gov> by searching for and locating Docket No. FAA-2021-1077.

EASA made the determination to increase the applicability during a continued operational safety review. EASA determined that the earlier versions of the bellcranks could be installed on all serial-numbered airplanes and expanded the applicability accordingly.

**Related Service Information Under 1 CFR Part 51**

The FAA reviewed Diamond Aircraft Mandatory Service Bulletin MSB 42-126/1 and MSB 42NG-066/1, Revision 1, dated November 14, 2019 (issued as one document) published with Diamond Aircraft Industries GmbH Work Instruction WI-MSB 42-126 and WI-MSB 42NG-066, Revision 1, dated November 14, 2019 (issued as one document) attached. This service information specifies procedures for inspecting the flap bell crank for cracks, installing two spacers instead of one long spacer, and replacing early revisions of the affected flap bell crank. This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in **ADDRESSES**.

**FAA’s Determination**

This product has been approved by the aviation authority of another country and is approved for operation in the United States. Pursuant to the FAA’s bilateral agreement with this State of Design Authority, it has notified the

FAA of the unsafe condition described in the MCAI and service information referenced above. The FAA is issuing this NPRM after determining the unsafe condition described previously is likely to exist or develop on other products of the same type design.

**Proposed AD Requirements in This NPRM**

This proposed AD would retain the actions of AD 2017-18-10 but would expand the applicability and prohibit installing a flap bell crank with part number D60-2757-11-00, up to and including revision ‘d.’

**Differences Between This Proposed AD and the MCAI**

The MCAI applies to DAI Model DA 42 M airplanes, and this proposed AD would not because it does not have an FAA type certificate.

**Costs of Compliance**

The FAA estimates that this AD, if adopted as proposed, would affect 200 airplanes of U.S. registry.

The FAA estimates the following costs to comply with this proposed AD:

**ESTIMATED COSTS**

Action	Labor cost	Parts cost	Cost per airplane	Cost on U.S. operators
Initial inspection and modification.	4 work-hours × \$85 per hour = \$340.	\$10	\$350 .....	\$70,000.
Repetitive inspection .....	2 work-hours × \$85 per hour = \$170.	N/A	\$170 per inspection cycle .....	\$34,000 per inspection cycle.

The FAA estimates the following costs to replace the flap bell crank based

on the results of the proposed inspection. The agency has no way of

determining the number of airplanes that might need this replacement:

**ON-CONDITION COSTS**

Action	Labor cost	Parts cost	Cost per airplane
Flap bell crank replacement .....	1 work-hour × \$85 per hour = \$85 .....	\$475	\$560

**Authority for This Rulemaking**

Title 49 of the United States Code specifies the FAA’s authority to issue rules on aviation safety. Subtitle I, Section 106, describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the Agency’s authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701, General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing

regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

**Regulatory Findings**

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the

national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify that the proposed regulation:

- (1) Is not a ‘significant regulatory action’ under Executive Order 12866,
- (2) Would not affect intrastate aviation in Alaska, and
- (3) Would not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

**List of Subjects in 14 CFR Part 39**

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

**The Proposed Amendment**

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

**PART 39—AIRWORTHINESS DIRECTIVES**

■ 1. The authority citation for part 39 continues to read as follows:

**Authority:** 49 U.S.C. 106(g), 40113, 44701.

**§ 39.13 [Amended]**

■ 2. The FAA amends § 39.13 by:  
 ■ a. Removing Airworthiness Directive 2017–18–10, Amendment 39–19019 (82 FR 42029, September 6, 2017); and  
 ■ b. Adding the following new airworthiness directive:

**Diamond Aircraft Industries GmbH:** Docket No. FAA–2021–1077; Project Identifier MCAI–2021–00607–A.

**(a) Comments Due Date**

The FAA must receive comments on this airworthiness directive (AD) by February 7, 2022.

**(b) Affected ADs**

This AD replaces AD 2017–18–10, Amendment 39–19019 (82 FR 42029, September 6, 2017).

**(c) Applicability**

This AD applies to Diamond Aircraft Industries GmbH Model DA 42, DA 42 M–NG, and DA 42 NG airplanes, all serial numbers, certificated in any category, with a flap bell crank part number (P/N) D60–2757–11–00, up to and including revision “f” installed.

**(d) Subject**

Joint Aircraft System Component (JASC) Code 2700, Flight Control System.

**(e) Unsafe Condition**

This AD was prompted by reports of cracks and deformation on certain flap bell cranks. The FAA is issuing this AD to prevent failure of the flap bell crank. The unsafe condition, if not addressed, could result in reduced control of the airplane.

**(f) Compliance**

Comply with this AD within the compliance times specified, unless already done.

**(g) Actions**

(1) Comply with paragraph (g)(2) or (g)(3) of this AD at whichever compliance time in paragraph (g)(1)(i) or (ii) of this AD occurs later.

(i) Before the flap bell crank accumulates 600 hours time-in-service (TIS); or

(ii) Within 100 hours TIS after the effective date of this AD or within 6 months after the

effective date of this AD, whichever occurs first.

(2) For airplanes with a flap bell crank revision “e” or “f”: Inspect the flap bell crank P/N D60–2757–11–00 for cracks and deformation and modify the flap control system by installing two spacers, P/N DS BU2–10–06–0065–C, by following section III Instructions in Diamond Aircraft Industries GmbH Work Instruction WI–MSB 42–126 and WI–MSB 42NG–066, Revision 1, dated November 14, 2019 (issued as one document) attached to Diamond Aircraft Mandatory Service Bulletin MSB 42–126/1 and MSB 42NG–066/1, Revision 1, dated November 14, 2019 (issued as one document).

(i) If there is a crack or any deformation, you must replace the flap bell crank with P/N D60–2757–11–00\_01, as required by step 6 of the Instructions, before further flight.

(ii) If there are no cracks and no deformation, repeat the inspection (not the modification) at intervals not to exceed 200 hours TIS until the flap bell crank is replaced with flap bell crank P/N D60–2757–11–00\_01.

(3) For airplanes with a flap bell crank up to revision “d”: Replace the flap bell crank with P/N D60–2757–11–00\_01 in accordance with section III Instructions in Diamond Aircraft Industries GmbH Work Instruction WI–MSB 42–126 and WI–MSB 42NG–066, Revision 1, dated November 14, 2019 (issued as one document) attached to Diamond Aircraft Mandatory Service Bulletin MSB 42–126/1 and MSB 42NG–066/1, Revision 1, dated November 14, 2019 (issued as one document).

**(h) Prohibited Installation**

As of the effective date of this AD, do not install on any airplane a flap bell crank P/N D60–2757–11–00 with a revision up to and including revision “d.”

**(i) Credit for Previous Actions**

This paragraph provides credit for the actions required by paragraphs (g)(2) and (3) of this AD, if done before the effective date of this AD using Diamond Aircraft Industries GmbH Work Instruction WI–MSB 42–126 and WI–MSB 42NG–066, dated March 27, 2017 (issued as one document) attached to Diamond Aircraft Mandatory Service Bulletin MSB 42–126 and MSB 42NG–066, dated March 27, 2017 (issued as one document).

**(j) Alternative Methods of Compliance (AMOCs)**

(1) The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or local Flight Standards District Office, as appropriate. If sending information directly to the manager of the certification office, send it to the attention of the person identified in paragraph (k)(1) of this AD and email to: 9-AVS-AIR-730-AMOC@faa.gov.

(2) Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

**(k) Related Information**

(1) For more information about this AD, contact Penelope Trease, Aviation Safety Engineer, General Aviation & Rotorcraft Section, International Validation Branch, FAA, 26805 E 68th Avenue, Denver, CO 80249; phone: (303) 342–1094; email: [penelope.trease@faa.gov](mailto:penelope.trease@faa.gov).

(2) Refer to European Aviation Safety Agency (EASA) AD 2020–0008, dated January 20, 2020, for more information. You may examine the EASA AD in the AD docket at <https://www.regulations.gov> by searching for and locating it in Docket No. FAA–2021–1077.

(3) For service information identified in this AD, contact Diamond Aircraft Industries GmbH, N.A. Otto-Straße 5, A–2700 Wiener Neustadt, Austria; phone: +43 2622 26700; email: [office@diamond-air.at](mailto:office@diamond-air.at); website: <https://www.diamondaircraft.com>. You may view this service information at the Airworthiness Products Section, Operational Safety Branch, FAA, 901 Locust, Kansas City, MO 64106. For information on the availability of this material at the FAA, call (817) 222–5110.

Issued on December 16, 2021.

**Lance T. Gant,**

*Director, Compliance & Airworthiness Division, Aircraft Certification Service.*

[FR Doc. 2021–27790 Filed 12–22–21; 8:45 am]

**BILLING CODE 4910–13–P**

**DEPARTMENT OF TRANSPORTATION****Federal Aviation Administration****14 CFR Part 71**

[Docket No. FAA–2021–1093; Airspace Docket No. 21–ASO–8]

**RIN 2120–AA66**

**Proposed Amendment and Removal of VOR Federal Airways; Southeastern United States**

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** This action proposes to modify 11 and remove 6 VHF Omnidirectional Range (VOR) Federal Airways in support of the VOR Minimum Operational Network (MON) project in the southeastern United States. This proposal would provide for the safe and efficient use of navigable airspace within the National Airspace System (NAS) while reducing NAVAID dependencies throughout the NAS as part of the FAA VOR MON project.

**DATES:** Comments must be received on or before February 7, 2022.

**ADDRESSES:** Send comments on this proposal to the U.S. Department of Transportation, Docket Operations, 1200