

# TEMPORARY REVISION

## AMM-TR-MÄM 42-1225

### Trim Bevel Wheel Installation

This Temporary Revision AMM-TR-MÄM 42-1225 is approved in conjunction with the Mandatory Design Change Advisory MÄM 42-1225 and is valid in conjunction with the Airplane Maintenance Manual (AMM) until this Temporary Revision has been incorporated into the AMM.

The limitations and information contained herein either supplement or, in the case of conflict, override those in the AMM.

The technical information contained in this document has been approved under the authority of DOA No. EASA.21J.052.

| Doc. No. | Section  | Affected Pages   |
|----------|----------|--|
| 7.02.15  | 27-38-00 | 2a, 2aa, 101a, 101aa, 201a, 201b, 201c, 201cc, 208a, 208aa |

#### Instruction

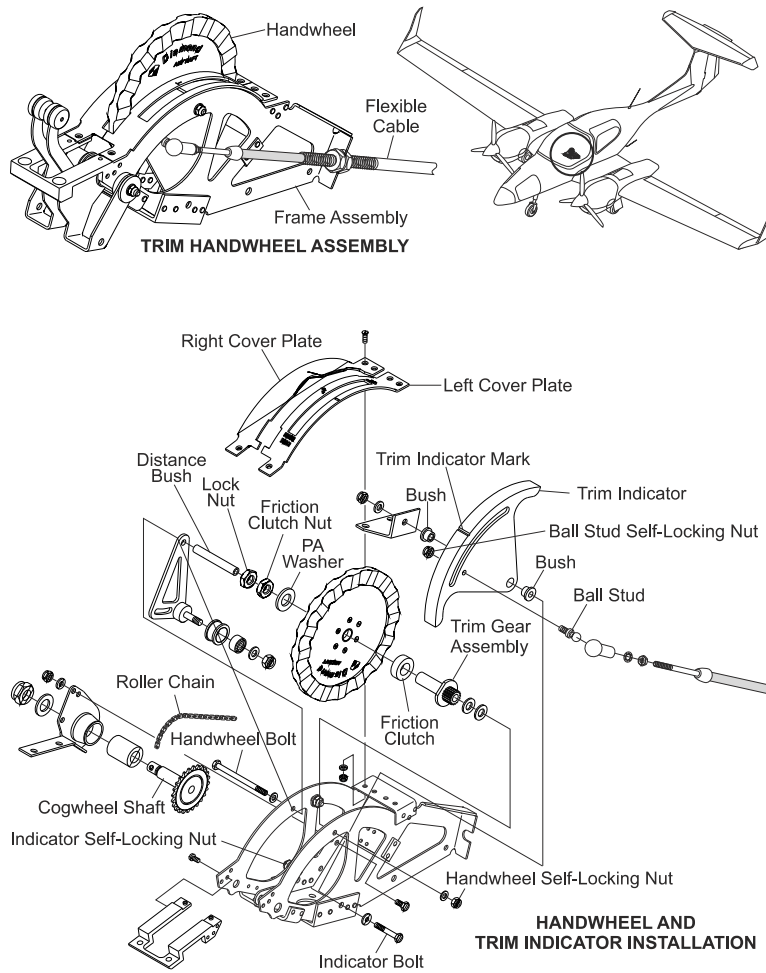
- Print this document on yellow paper (double-sided).
- Insert this cover page as the first page of the AMM.
- Insert the other pages of this Temporary Revision adjacent to or in front of the corresponding AMM pages.

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**CHAPTER 27**  
**FLIGHT CONTROLS**  
**Section 27-38-00**  
**Flight Controls - Elevator Trim-Mechanical**

**1. General**

*The following figure is amended to read:*



**Figure 1: Elevator Trim Mechanism in the Cockpit**

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**Trouble-Shooting****1. General**

*The following item is added:*

| <b>Trouble</b>                | <b>Possible Cause</b>             | <b>Repair</b>              |
|-------------------------------|-----------------------------------|----------------------------|
| Trim handwheel stiff to move. | Flexible cable damaged.           | Replace the cable.         |
|                               | Trim damper incorrectly adjusted. | Adjust the trim damper.    |
|                               | Handwheel stiff or stuck.         | Repair the handwheel assy. |

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### Maintenance Practices

*The following procedures are added:*

#### 1.A Remove/Install the Trim Handwheel

Refer to Figure 1.

##### A. Remove the Trim Handwheel

|     | Detail Steps/Work Items  | Key Items/References    |
|-----|--|-------------------------|
| (1) | Remove these item for access: <ul style="list-style-type: none"> <li>– The pilot's and copilot's seats.</li> <li>– The center console cover left and right.</li> <li>– The left and right cover plate of the trim handwheel assembly.</li> </ul> | Refer to Section 25-10. |
| (2) | Remove the roller chain.   |                         |
| (3) | Disconnect the flexible cable from the ball stud and remove the ball stud from the trim indicator, retain the self-locking nut of the stud.  |                         |
| (4) | Remove the self-locking nut on the handwheel bolt and the self-locking nut from the indicator bolt.  |                         |
| (5) | Remove the handwheel bolt and the indicator bolt.  |                         |
| (6) | Lift the whole handwheel assy with the trim indicator out of the frame assembly.   |                         |

##### B. Install the Trim Handwheel

|     | Detail Steps/Work Items  | Key Items/References |
|-----|--|----------------------|
| (1) | Install the handwheel and trim indicator in the frame assembly.              |                      |
| (2) | Tighten the self-locking nut on the handwheel bolt with 4.5 Nm (3.3 lbf.ft). |                      |

|     | Detail Steps/Work Items   | Key Items/References    |
|-----|---|-------------------------|
| (3) | Tighten the self-locking nut on the indicator bolt with 7.7 Nm (5.7 lbf.ft).  |                         |
| (4) | Reinstall the ball stud on the trim indicator and connect the flexible cable on the ball stud.  |                         |
| (5) | Reinstall the roller chain. Make sure it rests on the tensioner and not over the plates.  |                         |
| (6) | Do an inspection of all the controls that you have adjusted. If necessary for your Airworthiness Authority do a duplicate inspection of the controls. |                         |
| (7) | Install the left and right cover plate of the trim handwhell assembly.  |                         |
| (8) | Install the center console cover left and right side.   |                         |
| (9) | Install the pilot and copilot seats.  | Refer to Section 25-10. |

**1.B Replace the Trim Gear Assembly**

**A. Equipment**

| Item        | Quantity | Part Number |
|-------------|----------|-------------|
| Reamer 8H7. | 1        | Commercial. |

**B. Replace the Trim Gear Assembly**

Refer to Figure 1.

|     | Detail Steps/Work Item   | Key Items/References   |
|-----|--|------------------------|
| (1) | Remove the trim gear assembly.   | Refer to Paragraph 1A. |
| (2) | Remove the distance bush.  |                        |
| (3) | Replace the trim gear assembly. Pay attention to the correct order of the parts when assembling. |                        |



|     | Detail Steps/Work Item  | Key Items/References   |
|-----|---|------------------------|
| (4) | Install the trim gear assembly to the handwheel.  |                        |
| (5) | Adjust the friction clutch.   | Refer to Paragraph 3.  |
| (6) | After tightening of the friction clutch nut and the lock nut, ream hole of the trim gear assembly with 8H7. |                        |
| (7) | Clean the hole after reaming and lubricate it with Molykote 33 medium.                                      |                        |
| (8) | Lubricate distance bush on the outside and reinstall it.  |                        |
| (9) | Reinstall the trim handwheel.   | Refer to Paragraph 1A. |

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*The following procedure is amended to read:*

### 3. Elevator Mechanical Trim Control System Adjustment

#### D. Elevator Mechanical Trim Handwheel Friction Clutch Adjustment Procedure

|     | Detail Steps/Work Item   | Key Items/References   |
|-----|--|------------------------|
| (1) | Remove the trim gear assembly.   | Refer to Paragraph 1A. |
| (2) | Loosen the lock nut and the friction clutch nut for the handwheel.   | Refer to Figure 1.     |
| (3) | Adjust the friction clutch nut. Tighten the nut to increase the friction force and loosen the nut to decrease the friction force.  | Refer to Figure 1.     |
| (4) | Measure the friction force (clamp a spring balance onto the handwheel and measure force).  |                        |
| (5) | The friction force must be $60 \pm 10$ N ( $13.5 \pm 2.25$ lbf) on the corded area of the trim handwheel. This corresponds to a friction torque 3.2 - 4.4 Nm (2.4 - 3.2 lbf.ft). |                        |
| (6) | Adjust the friction clutch nut as necessary to set the correct friction force.   | Refer to Figure 1.     |
| (7) | Tighten the lock nut with 20 Nm (14.8 lbf.ft).   | Refer to Figure 1.     |
| (8) | After countering, reinstall the trim handwheel.  | Refer to Paragraph 1A. |

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