

MANDATORY SERVICE BULLETIN NO. MSBD4-027/1

SUPERSEDES MANDATORY SERVICE BULLETIN NO. MSBD4-027

I. TECHNICAL DETAILS

1.1 Category

Mandatory.

1.2 Airplanes affected

DA 40 D

Serial numbers 40.080, 40.084, D4.001 and subsequent.

1.3 Time of Compliance

Upon receipt of this Service Bulletin, not later than 31-Dec-2003.

1.4 Subject

Temporary Revision AMM-TR-MÄM-40-126 of the Airplane Maintenance Manual Doc. No. 6.02.01.

ATA-Code: --

1.5 Reason

The friction values for Roll servo and Pitch servo of the Autopilot clutches in the Airplane Maintenance Manual Doc. No. 6.02.01 were inadvertently swapped. These values are corrected with the Temporary Revision AMM-TR-MÄM-40-126. No new values were created.

1.6 Concurrent documents

None.

1.7 Approval

The technical information or instructions contained in this document relate to the Design Change Advisory no. MÄM 40-126 which has been approved under the authority of MOT Design Organization Approval no. MOT JA-01.

The technical information contained in this document has been approved under the authority of JAA Design Organization Approval No. MOT JA-01.

1.8 Accomplishment/Instructions

The Temporary Revision AMM-TR-MÄM-40-126 must be inserted into the Airplane Maintenance Manual Doc. No. 6.02.01 if the revision status is 4 or lower.

1.9 Mass (Weight) and CG

Negligible.

II. PLANNING INFORMATION

2.1 Material & Availability

The Temporary Revision AMM-TR-MÄM-40-126 of the Airplane Maintenance Manual Doc. No. 6.02.01 is attached to this Service Bulletin.

2.2 Special Tools

No special tools are required.

2.3 Labor effort

10 minutes.

2.4 Credit

Not applicable.

2.5 Reference documents

DA 40 Series Airplane Maintenance Manual, Doc. No. 6.02.01.

III. REMARKS

1. All measures must be carried out by the manufacturer, a certified aircraft service station or a certified aircraft maintenance mechanic.
2. Accomplishment of the measures must be confirmed in the log book.
3. In case of doubt, contact Diamond Aircraft.

TEMPORARY REVISION

AMM-TR-MÄM-40-126

CORRECTION OF THE FRICTION

VALUES OF THE AUTOPILOT

CLUTCHES

This Temporary Revision AMM-TR-MÄM-40-126 is approved in conjunction with the Mandatory Design Change Advisory MÄM 40-126 and is valid in conjunction with the latest revision of the Airplane Maintenance Manual until this temporary revision has been incorporated into the Airplane Maintenance Manual.

AFFECTED CHAPTERS:

Section 22-10

Autopilot

Maintenance Practices

10. Adjust the Clutch Torques

A. Equipment

Item	Quantity	Part Number
Goodrich Slip Clutch Test Stand.	1	20-9855-03

B. Adjustment Procedure

	Detail Steps/Work Items	Key Items/References
(1)	Remove the clutch from the airplane.	Refer to Section 22-10 of the AMM.
(2)	Install the clutch assembly on the slip clutch test stand.	Refer to the equipment manufacturers' documentation.
(3)	Measure clockwise (CW) and counter-clockwise (CCW) clutch torque, adjust if necessary.	Refer to the equipment manufacturers' documentation. The correct clutch torques are: Roll servo 2.03 ± 0.23 Nm (18 ± 2 in.lb) Pitch servo 3.39 ± 0.34 Nm (30 ± 3 in.lb) Pitch trim servo 4.07 ± 0.45 Nm (36 ± 4 in.lb)
(4)	Remove the clutch assembly from the slip clutch test stand.	
(5)	Install the clutch to the airplane.	Refer to Section 22-10 of the AMM.