



Twin Commander Aircraft, LLC

Maintenance Alert

MA24001 Rev IR

INSPECTION OF FLIGHT CONTROL AND TRIM CABLES

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MAINTENANCE ALERT MA24001
INSPECTION OF FLIGHT CONTROL AND TRIM CABLES



Twin Commander Aircraft, LLC

Maintenance Alert

13 June 2024

MA24001

SUBJECT: INSPECTION OF FLIGHT CONTROL AND TRIM CABLES

EFFECTIVITY:

MODELS:	S/N:
500/A/B/U/S	ALL
520	ALL
560/A/E/F	ALL
680/E/F/FP	ALL
720	ALL

REASON FOR PUBLICATION: As part of a post incident report, frayed/damaged trim cables were found in a different model and location with similar geometry and routing as Frame Station (FS) 312.828. The frayed/damaged cables did not contribute to the incident. However, Twin Commander LLC. is advising owners/operators to perform a detailed inspection of the cables within this area per this Maintenance Alert.

BY WHOM WORK SHALL BE ACCOMPLISHED

CAA/NAA A&P Certificated Mechanic or CAA/NAA Repair Station

WHEN WORK SHALL BE ACCOMPLISHED

Threshold Inspection:

Within the next 12 Calendar months after the release date of this document. This Maintenance Alert provides details on what to look for and inspect on flight control cables. It does not preclude or supersede inspection of the rest of the flight control systems, such as torque tubes, pulley brackets, flight surfaces and bearings, etc. as required by the AMM.

If the subject inspection has been performed within the last 12 calendar months from the date of this MA to the same inspection requirements, it can be considered complied with, and the repeat inspection shall then be based on the date that the last inspection was performed.

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Repeat Inspection:

Repeat inspect the subject cables, fairleads, pulleys, etc, no later than every 3 calendar years.

REFERENCE PARTS LIST

Model	S/N	Elevator Cable	Trim Cable, Elevator	Elevator Trim Pulley	Rudder Cable	Rudder Pulley	Rudder Trim Cable
500		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
500A		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
500B		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
500U		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
500S		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
520		500004-45, -47	500004-149, -143, 151	MS24566-1B	500004-3, -5	MS24566-3B	500004-129
560		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
560A		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
560E		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
560F		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
680		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
680E		500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
680F	871-1780	500004-165, -167	500004-149, -143, 151	MS24566-1B	500004-153, -155	MS24566-3B	500004-129
680FP	871-1447	500004-309, -311	500004-319, -317, -143	MS24566-1B	500004-153, -155	MS24566-3B	500004-315
720		500004-311, -309	500004-149, -143, 151	MS24566-1B	500004-305, -307	MS24566-3B	500004-129

Note: these parts are safety stock items, however it is recommended to account for a 3-week lead time.

INSTRUCTIONS:

Inspection – Cables

1. Definition of Terms

For a definition of terms relevant to this document refer to SI 263.

2. Inspection. Primary Flight Control /Trim Cables / Other. Refer to SI 263 for the following steps for the locations identified below.

Contact Twin Commander for any questions or clarifications.

- a. Refer to SI 263 Step 2 to inspection the flight control and trim cables. Inspect the full length of cable travel at FS 312 by actuating the control surface to sweep its full length of travel from stop to stop.
- b. Conduct an inspection of the cable routing. (From FS312 to FS335)
- c. Conduct an inspection of the cable fittings. (From FS312 to FS335)
- d. Conduct an inspection of the pulleys. (From FS312 to FS335)
- e. Conduct an inspection of Fairleads, Guides, Anti-abrasion Strips. (Within From FS312 to FS335)

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3. Reporting.

Report all findings to Twin Commander, noting aircraft model, serial number, total aircraft hours/cycles and damage found.

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