



Twin Commander Aircraft, LLC

Maintenance Alert

MA23002 Rev IR

INSPECTION OF FLIGHT CONTROL AND TRIM CABLES

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MAINTENANCE ALERT MA23002
INSPECTION OF FLIGHT CONTROL AND TRIM CABLES



Twin Commander Aircraft, LLC

Maintenance Alert

13 June 2024

Ref MA23002

SUBJECT: INSPECTION OF FLIGHT CONTROL AND TRIM CABLES

EFFECTIVITY:

MODELS:	S/N:
680FL/680FL(P)	ALL
680T/V/W, 681, 685	ALL
690/A/B/C/D	ALL
695/A/B	ALL

REASON FOR PUBLICATION: As part of a post incident report, frayed/damaged trim cables were found adjacent to Frame Station (FS) 386.828. 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.

Repeat Inspection:

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

Ontic Proprietary Data

MAINTENANCE ALERT MA23002
INSPECTION OF FLIGHT CONTROL AND TRIM CABLES

REFERENCE PARTS LIST:

Model	S/N	Elevator Cable	Elevator Trim Cable	Elevator Trim Pulley	Rudder Cable	Rudder Trim Cable	Rudder Pulley
680FL	1261-1430	500012-29, 500012-31	500012-73, -77, -75	MS24566-1B	500012-13, -15	500012-71	MS24566-3B
680FL	1431-1853	500012-141, 500012-145	500012-73, -77, -75	MS24566-1B	500012-129, -131	500012-71	MS24566-3B
680FL(P)	1261-1854	500012-143, 500012-147	500012-73, -77, -75	MS24566-1B	500012-129, -131	500012-71	MS24566-3B
680T/V/W & 681	ALL	500012-143, 500012-147	500012-73, -77, -75	MS24566-1B	500012-129, -131	500012-71	MS24566-3B
685	ALL	500012-143, 500012-147	500012-73, -77, -75	MS24566-1B	500012-251, -253	500012-71	MS24566-3B
690	ALL	500012-143, 500012-147	500012-73, -77, -75	MS24566-1B	500012-251, -253	500012-71	MS24566-3B
690A	11100-11281	500012-143, 500012-147	500012-73, -77, -75	MS24566-1B	500012-251, -253	500012-71	MS24566-3B
690A	11282-11349	500012-143, 500012-147	500012-73, -77, -75	MS24566-1B	500012-251, -253	500012-285, -287	MS24566-3B
690B	ALL	500012-143, 500012-147	500012-73, -77, -75	MS24566-1B	500012-251, -253	500012-285, -287	MS24566-3B
690C	11600-11734	500035-507, 500034-503	500023-1, 500059-503, 500050-1	MS24566-1B	500012-251, -253	500021-1, 500020-1	MS24566-3B
695	95000-95084	500035-507, 500034-503	500023-1, 500059-503, 500050-1	MS24566-1B	500012-251, -253	500021-1, 500020-1	MS24566-3B
690D	15000-15039	500035-507, 500034-503	500023-1, 500059-503, 500050-1	MS24566-1B	500053-1, 500052-1	500021-1, 500020-1	MS24566-3B
695A	96000-96094	500035-507, 500034-503	500023-1, 500059-503, 500050-1	MS24566-1B	500053-1, 500052-1	500021-1, 500020-1	MS24566-3B
690C	11735-11735	500035-507, 500034-503	500023-1, 500059-503, 500050-1	MS24566-1B	500012-251, -253	500021-1, 500020-1	MS24566-4B
690D	15040-15042	500035-507, 500034-503	500023-1, 500059-503, 500050-1	MS24566-1B	500053-1, 500052-1	500021-1, 500020-1	MS24566-4B
695A	96095-96100	500035-507, 500034-503	500023-1, 500059-503, 500050-1	MS24566-1B	500053-1, 500052-1	500021-1, 500020-1	MS24566-4B
695B	ALL	500035-507, 500034-503	500023-1, 500059-503, 500050-1	MS24566-1B	500053-1, 500052-1	500021-1, 500020-1	MS24566-4B
SI 199 Modified AC	ALL						MS24566-4B

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 inspect the flight control and trim cables. Inspect the full length of cable travel at FS 386 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 FS386 to FS409)
- c. Conduct an inspection of the cable fittings. (Within FS386 to FS409)
- d. Conduct an inspection of the pulleys. (Within FS386 to FS409)
- e. Conduct an inspection of Fairleads, Guides, Anti-abrasion Strips. (Within FS386 to FS409)

MAINTENANCE ALERT MA23002
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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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