



Twin Commander Aircraft, LLC

Maintenance Alert

19 February 21

SUBJECT: Corrosion on lower wing skin outside of SB208 inspection area

EFFECTIVITY:

500U, 680FL, 680FLP, 680W	1730 THRU 1854
500S	1755 THRU 3323
681	6001 THRU 6072
685	12001 THRU 12066
690, 690A, 690B	11001 THRU 11566

REASON FOR PUBLICATION: To recommend additional visual inspection of the upper side of the lower wing skin when performing SB208, or when a fuel leak has been detected anywhere along the wing, and any time a fuel cell is replaced. A report from the field noted corrosion aft of the lower front wing spar between the aircraft centerline and wing station 145 (WS 160 for 685, 690, 690A, & 690B). The corrosion was also aft of the steel strap under the lower front spar cap underneath the wing cavity lining. Inspection per this ALERT will reduce the potential of having to perform major repairs in this area.

NOTE: When a fuel leak has occurred all wing compartments inboard of the leak should be inspected.

INSTRUCTIONS: Remove fuel cell per applicable maintenance manual instructions. Lift, or remove if necessary, the wing compartment lining from the bottom skin. Clean debris away to enable a visual inspection for signs of corrosion. Following are corrosion classifications for purposes of this document:

1. **LIGHT** Characterized by discoloration or pitting to a depth of approximately 0.002 inch maximum.
2. **MODERATE** Appears similar to light corrosion except there may be some blisters or evidence of scaling and flaking. Pitting depths may be as deep as 0.010 inch.
3. **SEVERE** General appearance may be similar to moderate corrosion with severe blistering exfoliation and scaling or flaking. Pitting depths will be deeper than 0.010 inch.

If only light corrosion is found, follow these steps to correct the condition:

NOTE: These instructions apply to wing skins only. For corrosion found on stringers and spars, perform inspection and work per SB208.

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1. Remove corrosion by light hand sanding. Do not exceed the depth of defect(s).
2. Apply touch up chem conversion coat (Alodine) to reworked areas.

If moderate or severe skin corrosion is found, replace the skin then follow step 2 above. Notify Twin Commander Aircraft, LLC. Please provide the total time on the aircraft. Information gathered will assist in establishing an inspection interval.

Contact: Twin Commander Aircraft, LLC.
1176 Telecom Dr., Creedmoor, NC 27522
info@twincommander.com

MAINTENANCE ALERT

COMPLIANCE CARD

Inspection of Lower Wing Skin Inside Fuel Cell Compartments

Please fill in the requested information and mail this card to Twin Commander at the address on the other side, fax it to 919-682-3786, or email it to info@twincommander.com

AIRCRAFT MODEL _____ SERIAL NUMBER _____

AIRCRAFT REGISTRATION _____ TOTAL TIME _____ (HOURS)

OWNER'S NAME AND ADDRESS: _____

TELEPHONE: _____ FAX: _____

EMAIL ADDRESS: _____

COMMENTS:

WORK PERFORMED BY (NAME, COMPANY NAME, AND ADDRESS):

TELEPHONE: _____ FAX: _____

DATE: _____ SIGNATURE: _____

MAINTENANCE ALERT



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