

# SERVICE INFORMATION



## Kodiak SI.21-01 Kodiak Corrosion Prevention

Corrosion prevention and control is an important part of any aircraft maintenance program and particularly important for those aircraft operated in severe operational environments characterized by high humidity, elevated temperatures, and long duration exposure to salt water.

Kodiak Aircraft has developed a corrosion prevention and control program that is detailed in Chapter 5 of the Aircraft Maintenance Manual and in Service Notice 16-01. Kodiak Aircraft strongly recommends that these procedures be followed to reduce the likelihood of damaging corrosion developing on your Kodiak.

### Recommended DAILY Corrosion Prevention:

| KODIAK<br>100 SERIES  |                   |  | CHAPTER 5<br>TIME LIMITS-MAINTENANCE CHECKS |          |  |
|---|-------------------|--|---|----------|--|
| DAILY CORROSION PREVENTION  |                   |  |   |          |  |
| Perform the following daily tasks after the last flight of the day. |                   |  |   |          |  |
| DAILY CORROSION PREVENTION TABLE (AFTER LAST FLIGHT OF THE DAY)     |                   |  |   | INITIALS |  |
| Code  | Zone              | Description  | MECH  | INSP     |  |
| N/A   | ALL               | Thoroughly wash the complete aircraft with fresh water after the last flight of the day per <b>0635 External Aircraft Cleaning</b> .   |   |          |  |
| N/A   | ALL               | Clean exhaust deposits off fuselage, struts, belly, horizontal stabilizer, and elevator with cleaning, polishing wax.  |   |          |  |
| 5300  | ALL               | Clean aircraft interior, ensuring no standing water, sand, or salt residues remain on the flooring or the seat tracks.   |   |          |  |
| 5300  | 200<br>300<br>400 | Inspect all drain holes for blockage, clear if necessary.  |   |          |  |
| 6100  | 100               | Wash propeller blades with a noncorrosive soap solution. Touch up chipped paint as required. Refer to the <i>Hartzell Propeller Owner's Manual and Logbook</i> (Manual No. 149) for further instructions.                                    |   |          |  |
| 7230  | 100               | Perform a desalination (compressor and CT) and external wash. Refer to <b>7230.5.2 Desalination and/or Performance Recovery Compressor Wash</b> and the <i>PWC MM 3021242</i> for detailed procedures.                                       |   |          |  |
| 7200  | 100               | Perform drying engine run at 80% power for one minute or more per the <i>PWC MM 3021242</i> .  |   |          |  |
| 7603  | 100               | <b>Engine Control Rod Ends:</b> Lubricate the rod ends with LPS®-1 or turbine engine oil.<br>*Engine Control Rod Ends must all be lubricated following each external engine wash.  |   |          |  |
| 3220  | 700               | <b>Nose Gear:</b> Inspect fork, shock strut, and wheel for chipped paint and corrosion. Inspect strut barrel for pitting and corrosion. Wipe the nose strut's exposed chrome tube with a cloth lightly damp with MIL-H-5606 hydraulic fluid. |   |          |  |
| 3240  | 700               | <b>Main Landing Gear Wheels and Brakes:</b> Inspect for chipped paint and corrosion.   |   |          |  |

# Recommended WEEKLY Corrosion Prevention:

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## WEEKLY CORROSION PREVENTION

Perform the following weekly tasks in addition to the DAILY CORROSION PREVENTION TABLE.

| WEEKLY CORROSION PREVENTION TABLE |                    |  | INITIALS |      |
|-----------------------------------|--------------------|--|----------|------|
| Code                              | Zone               | Description  | MECH     | INSP |
| 6100                              | 100                | <b>Propeller Spinner and Hub:</b> Remove spinner, inspect for corrosion and wash. Refer to <i>Hartzell Propeller Owner's Manual and Logbook</i> (Manual No. 149) for further instructions. Corrosion of any type on the hub, or heavy corrosion on other parts that results in severe pitting, must be referred to an authorized propeller repair station. |          |      |
| N/A                               | 200<br>300         | Clean windshields and windows with a cleaning, polishing wax per <b>0635.1.4 Windshield/Window Cleaning Products</b> .   |          |      |
| 2700                              | 200<br>thru<br>600 | Spray lubricate the flight control bearings, rod ends, and flap tracks with a water displacement lubricant such as LPS-2, CorrosionX, or ACF-50.   |          |      |
| 2711                              | 600                | Spray lubricate the exposed areas of the aileron trim actuator pushrods with a water displacement lubricant such as LPS-2, CorrosionX, or ACF-50.  |          |      |
| 2731                              | 400                | Spray lubricate the exposed areas of the elevator trim actuator pushrods with a water displacement lubricant such as LPS-2, CorrosionX, or ACF-50.   |          |      |
| 2731                              | 400                | Spray lubricate the elevator trim roller drive chains with a water displacement lubricant such as LPS-2, CorrosionX, or ACF-50.  |          |      |
| 2750                              | 500<br>600         | Clean and lubricate the flap actuator jackscrews per <b>2750.3.1 Flap Actuator Servicing</b> .   |          |      |
| 5210                              | 800                | <b>Crew Door Hinges:</b> Lubricate the crew door hinge points with LPS-1.  |          |      |
| 5210                              | 800                | <b>Cargo Door Hinges:</b> Lubricate the cargo door piano hinges with LPS-1.  |          |      |
| 5347                              | 200                | Clean and lubricate the crew seat tracks with a greaseless spray lubricant such as LPS-1.  |          |      |

## OTHER Corrosion Prevention Tasks:

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### OTHER CORROSION PREVENTION TASKS

Perform the following tasks as recommended by the product manufacturers or as necessary to retain adequate confidence in the level of protection.

| OTHER CORROSION PREVENTION TASKS |  |  | INITIALS |      |
|----------------------------------|--|--|----------|------|
| Code                             | Zone                                   | Description  | MECH     | INSP |
| N/A                              | ALL                                    | Apply a protective wax to the complete aircraft exterior per the <i>POH/AFM</i> , section 8 and <b>0635.5.3 External Painted Surface Cleaning</b> .  |          |      |
| N/A                              | ALL                                    | Apply a thin film of a water-displacing corrosion preventive compound, conforming to MIL-C-81309 (e.g. CorrosionX, ACF-50), by spray application, ensuring complete coverage of the interiors of the fuselage, empennage, and wings. |          |      |
| 2800                             | 100<br>200<br>300<br>500<br>600        | Test for the presence of microbial or bacterial growth in the fuel system.   |          |      |
| 2460                             | 100<br>200<br>300<br>400<br>500<br>600 | Inspect all ground points for corrosion. Any observed corrosion should be removed and appropriate cleaning and treatments made.  |          |      |

Please refer to SN16-01 and the most current revision of the Kodiak 100 Airplane Maintenance Manual for the details of this program. Kodiak Aircraft operating on floats should also reference the float manufacturer's maintenance manual and instructions for continued airworthiness for more information on corrosion prevention and control.







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