VERTICAL STABILIZER - REMOVAL/INSTALLATION

1. General

A. The vertical stabilizer is of conventional sweptback design of semimonocoque construction utilizing spars, semi-spars, ribs, and skins. The assembly is riveted together with conventional universal head rivets. A dorsal fin is attached with screws to the forward section of the vertical fin and to the top of the fuselage. An aerodynamically balanced rudder is hinged, using bolts, to the trailing edge of the vertical stabilizer at three hinge points.

2. Vertical Stabilizer Removal/Installation

A. Remove Vertical Stabilizer (Refer to Figure 401).

NOTE: An access cover located on the bottom aft side of the tailcone provides access to the vertical stabilizer mounting points.

- (1) Remove rudder in accordance with Rudder Removal/Installation.
- (2) Remove dorsal fin (3) by removing screws (4).
- (3) Disconnect balanced loop VOR NAV antenna lead (if installed) in tailcone.
- (4) Disconnect tail surface de-ice system plumbing (if installed) in tailcone.
- (5) If installed, remove the liquid barrier. Refer to Chapter 53, Plates/Skins Maintenance Practices.
- (6) Working through tailcone access opening, remove both front spar attach bolts (5) and (6).
- (7) While supporting vertical stabilizer, remove both rear spar attach bolts (9) and (10).
- (8) Remove vertical stabilizer (2).
- B. Install Vertical Stabilizer (Refer to Figure 401).
 - (1) Position vertical stabilizer (2) on airplane, lining up front and rear spar attachment holes with corresponding holes in tailcone bulkheads.
 - (2) Support vertical stabilizer (2) and install spar attachment bolts (5), (6), (9), and (10).
 - (3) If installed, install the liquid barrier. Refer to Chapter 53, Plates/Skins Maintenance Practices.
 - (4) Connect tail surface de-ice system plumbing (if removed) in tailcone.
 - (5) Connect balanced loop VOR NAV antenna lead (if removed) in tailcone.
 - (6) Install dorsal fin (3) with screws (4).
 - (7) Install rudder in accordance with Rudder Removal/Installation.
 - (8) Check rudder system for proper travels and cable tension. Rerig as required. Refer to Chapter 27.

Print Date: Mon May 15 15:07:09 CDT 2023

A22219 **AIRPLANES 20800001** DETAIL C THRU 20800028 **EXCEPT AIRPLANES AIRPLANES 208B0001 INCORPORATING** AND ON SK208-13 DETAIL C AIRPLANES 20800029 AND ON AND 20800001 THRU 20800028 **INCORPORATING SK208-13** 12 DETAIL B 7. NUT TIP ASSEMBLY 1. NUT **VERTICAL FIN** 8. 2. **REAR SPAR** 3. 9. **DORSAL FIN** ATTACH BOLT **SCREW** 4. 10. **REAR SPAR** FRONT SPAR 5. 26107001 ATTACH BOLT ATTACH BOLT A26312006 B26312004 FRONT SPAR 11. NUT 6. DETAIL A NUT 12. ATTACH BOLT C26311002A

Figure 401: Sheet 1: Vertical Stabilizer and Dorsal Fin Installation