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.

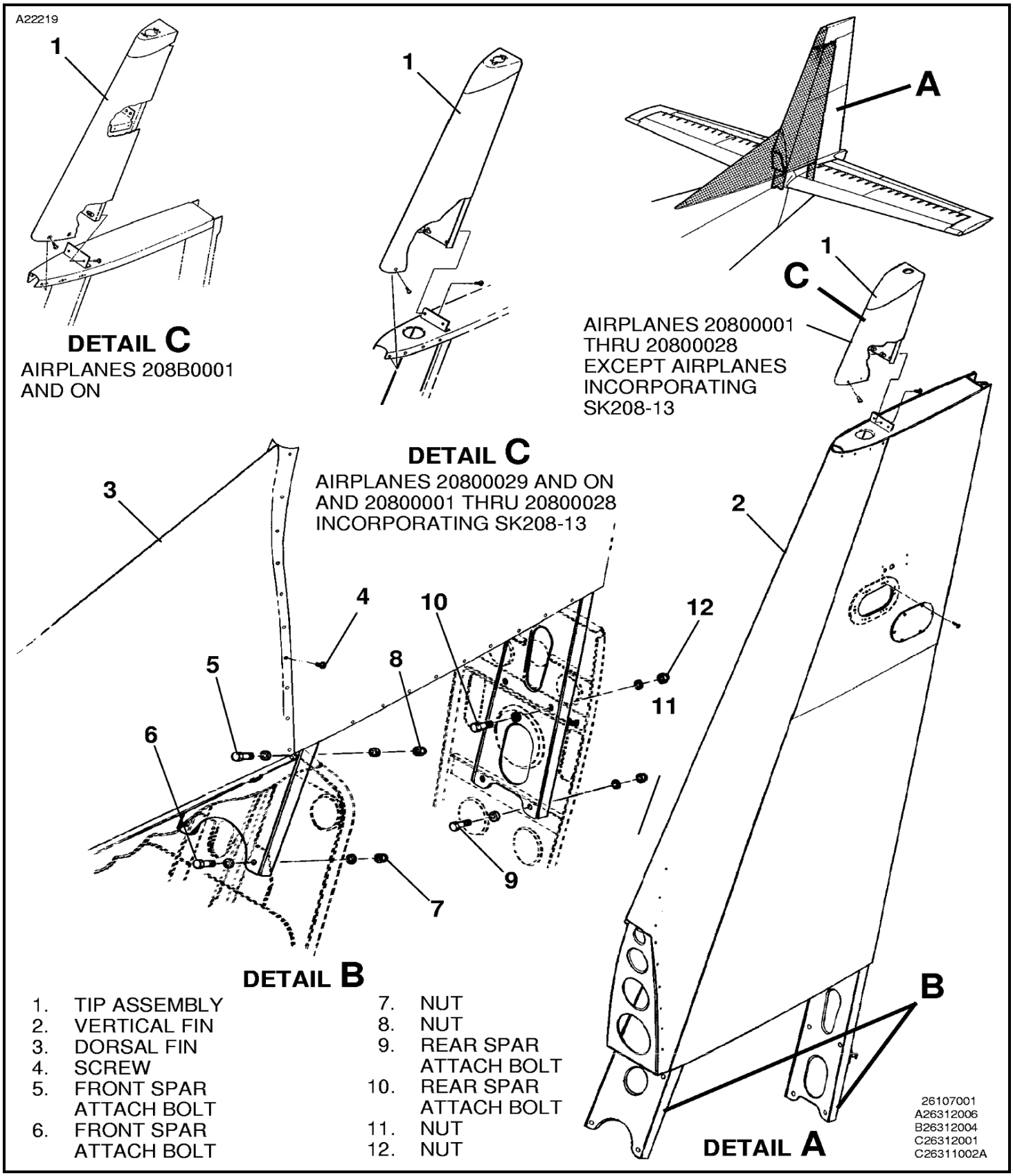
(5) Connect balanced loop VOR NAV antenna lead (if removed) in tailcone.

(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.

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



1. TIP ASSEMBLY
2. VERTICAL FIN
3. DORSAL FIN
4. SCREW
5. FRONT SPAR ATTACH BOLT
6. FRONT SPAR ATTACH BOLT
7. NUT
8. NUT
9. REAR SPAR ATTACH BOLT
10. REAR SPAR ATTACH BOLT
11. NUT
12. NUT