

LEADING EDGE - REMOVAL/INSTALLATION

1. General

- A. The wing leading edge consists of three sections incorporating riveted nose ribs and skins. The leading edge assembly can be removed and replaced as a single unit.

2. Leading Edge Removal/Installation

- A. Remove Leading Edge (Refer to Figure 401).

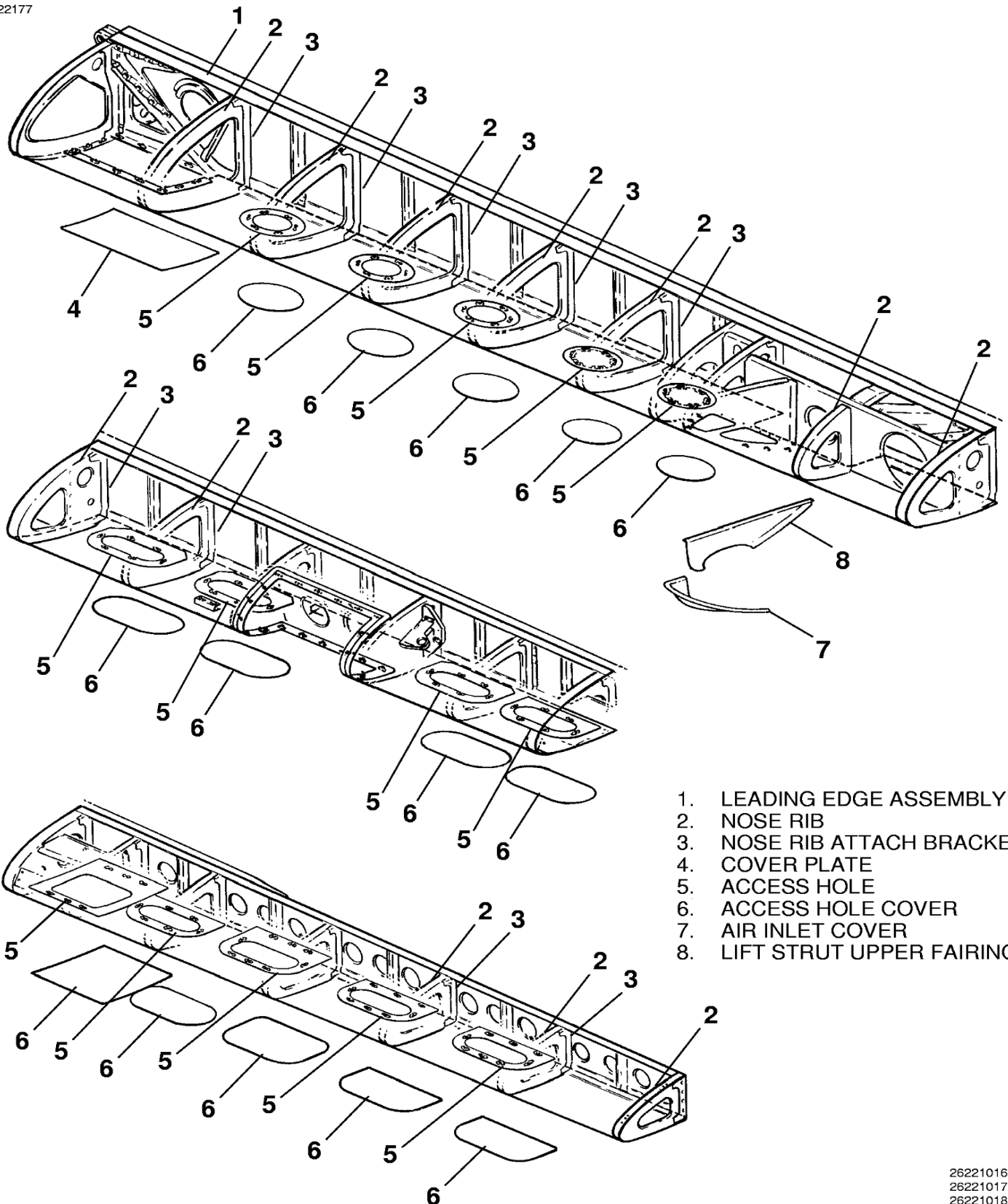
- (1) Turn off all electrical power.
- (2) Remove wing tip in accordance with Wings - Removal/Installation, Wing Tip Removal/Installation.
- (3) Remove lower cover plates (4) and covers (6).
- (4) Remove air inlet cover (7) and lift strut upper fairing (8).
- (5) Remove wing de-ice boot (if installed) in accordance with Chapter 30.
- (6) Disconnect aileron control system carry-thru cables at turnbuckles above headliner in cabin.
- (7) Disconnect aileron and spoiler push-pull rods at outboard bellcrank. Refer to Chapter 27.
- (8) In right wing only, disconnect aileron trim tab cable at quick-disconnects in leading edge root area.
- (9) In left wing only, disconnect pitot/static lines at wing root connections. Cap open lines to prevent entrance of foreign materials.
- (10) Remove wires from inboard and outboard fuel level transmitters and disconnect electrical cable connector in root area.
- (11) Drill out and remove flush rivets attaching leading edge skins to upper and lower spar caps.
- (12) Working through lower access openings (5), drill out and remove universal head rivets attaching nose ribs (2) to spar attach brackets (3).
- (13) Remove leading edge assembly with electrical wire bundle, pitot/static lines, and aileron/aileron trim cables intact.

- B. Install Leading Edge (Refer to Figure 401).

- (1) Trial fit wing leading edge assembly (1) to wing front spar by installing cleco fasteners to temporarily attach leading edge.
- (2) Working through access holes (5) in lower side of leading edge, rivet nose ribs (2) to nose rib attach brackets (3). Use MS20470AD4 universal head rivets.
- (3) Rivet leading edge skins to upper and lower spar caps using NAS1097AD5 and NAS1097AD4 rivets
- (4) Connect electrical wires to outboard and inboard fuel level transmitters. Reconnect electrical cable in wing root area.
- (5) In left wing only, connect pitot/static lines in wing root area.
- (6) In right wing only, connect aileron trim cables at quick-disconnects in wing root area of leading edge.
- (7) Reconnect aileron control system interconnect cables at turnbuckles above headliner in cabin.
- (8) Connect aileron and spoiler push-pull rods at outboard bellcrank.
- (9) Check aileron, aileron trim tab, and spoiler surfaces for proper travels and adjust cable tensions per procedures in Chapter 27. Safety turnbuckles and push-pull rod pivot bolts.
- (10) Install wing de-ice boot (if removed) in accordance with Chapter 30.
- (11) Install lift strut upper fairing (8) and air inlet cover (7).
- (12) Replace lower cover plates (4) and access hole covers (6).
- (13) Replace wing tip in accordance with Wings - Removal/Installation, Wing Tip Removal/Installation.
- (14) Turn on electrical power and check electrical components for proper functioning (e.g., fuel quantity system, pitot/static system heaters, stall warning system, landing/taxi lights, and navigation lights).

Figure 401 : Sheet 1 : Wing Leading Edge Installation

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1. LEADING EDGE ASSEMBLY
2. NOSE RIB
3. NOSE RIB ATTACH BRACKET
4. COVER PLATE
5. ACCESS HOLE
6. ACCESS HOLE COVER
7. AIR INLET COVER
8. LIFT STRUT UPPER FAIRING

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