

CHAPTER

57

Wings

CHAPTER 57
WINGS

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A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

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CHAPTER 57
WINGS

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WINGS - TOP VIEW - WINGLETS - GENERAL DESCRIPTION

General

The left wing is shown. The right wing is almost the same. Most of material in the wing is aluminum.

These components attach to the wing structure.

- Engine nacelle/pylon
- Flight control surfaces
- Winglets

Wing Reference Dimensions

The wing has two reference dimensions. The reference dimensions give wing locations in inches. Measure each location from buttock line 0. These are the wing reference dimensions:

- Wing station
- Wing buttock line

Measure the wing station perpendicular to the wing leading edge.

Measure the wing buttock line parallel to the buttock line.

Access Panels

Access panels on the top of the wing give access to the main landing gear support structure.

Winglets

The upper and lower skin panels of the winglets are made of composite fiberglass/graphite/epoxy honeycomb material with an aluminum leading edge and aluminum ribs. The winglet has anti-collision lights and forward and aft position lights. An access panel on the bottom of the winglet gives access to the electrical connectors from the wing and the electrical connectors inside the winglet for anti-collision lights and forward position lights. Access for the aft position light is in the winglet aft canoe.

Older winglets have a single lens and a single mount bracket for the forward position lights and the anti-collision lights. Newer winglets have two lens and two mount brackets for separate forward position lights and a separate anti-collision light in each winglet.

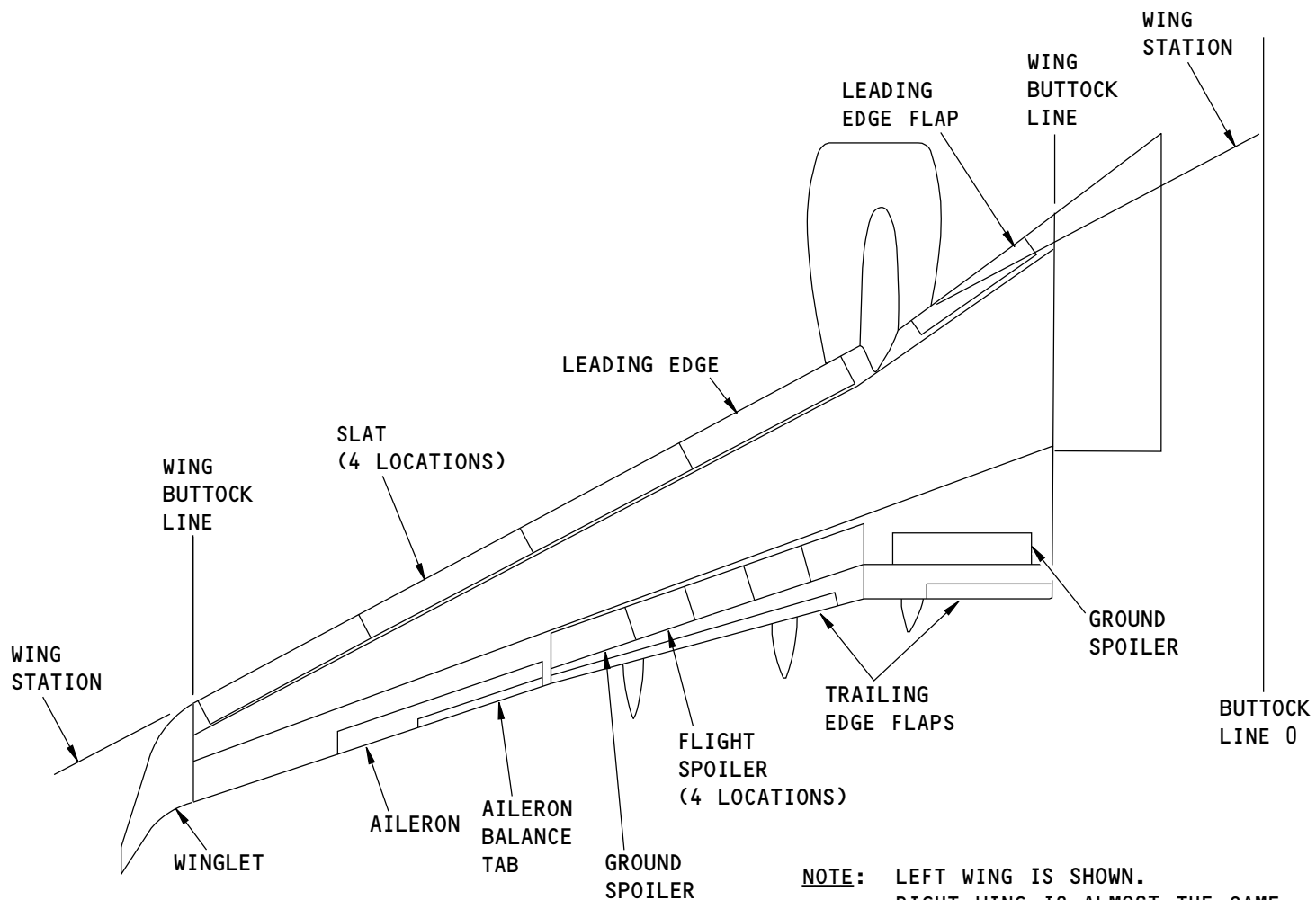
Weight added to the winglet can cause a safety condition. The old paint must be removed before new paint is applied to the winglet. No new paint or logos may be applied over the old paint. You must get the approval of Aviation Partners - Boeing, LLC for any changes.

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WINGS - TOP VIEW - GENERAL DESCRIPTION

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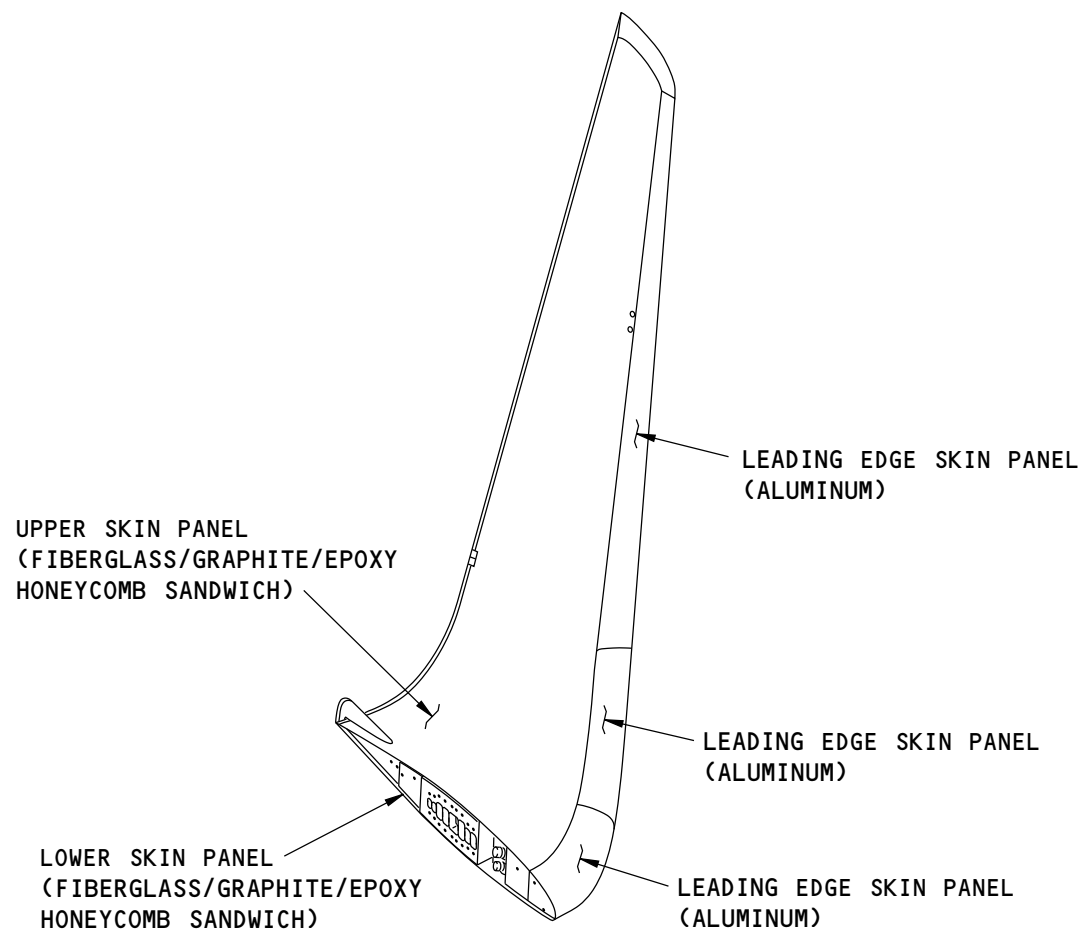
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LEFT WINGLET
(RIGHT WINGLET IS OPPOSITE)
(VIEW IN THE OUTBOARD DIRECTION)

WINGLET - GENERAL DESCRIPTION

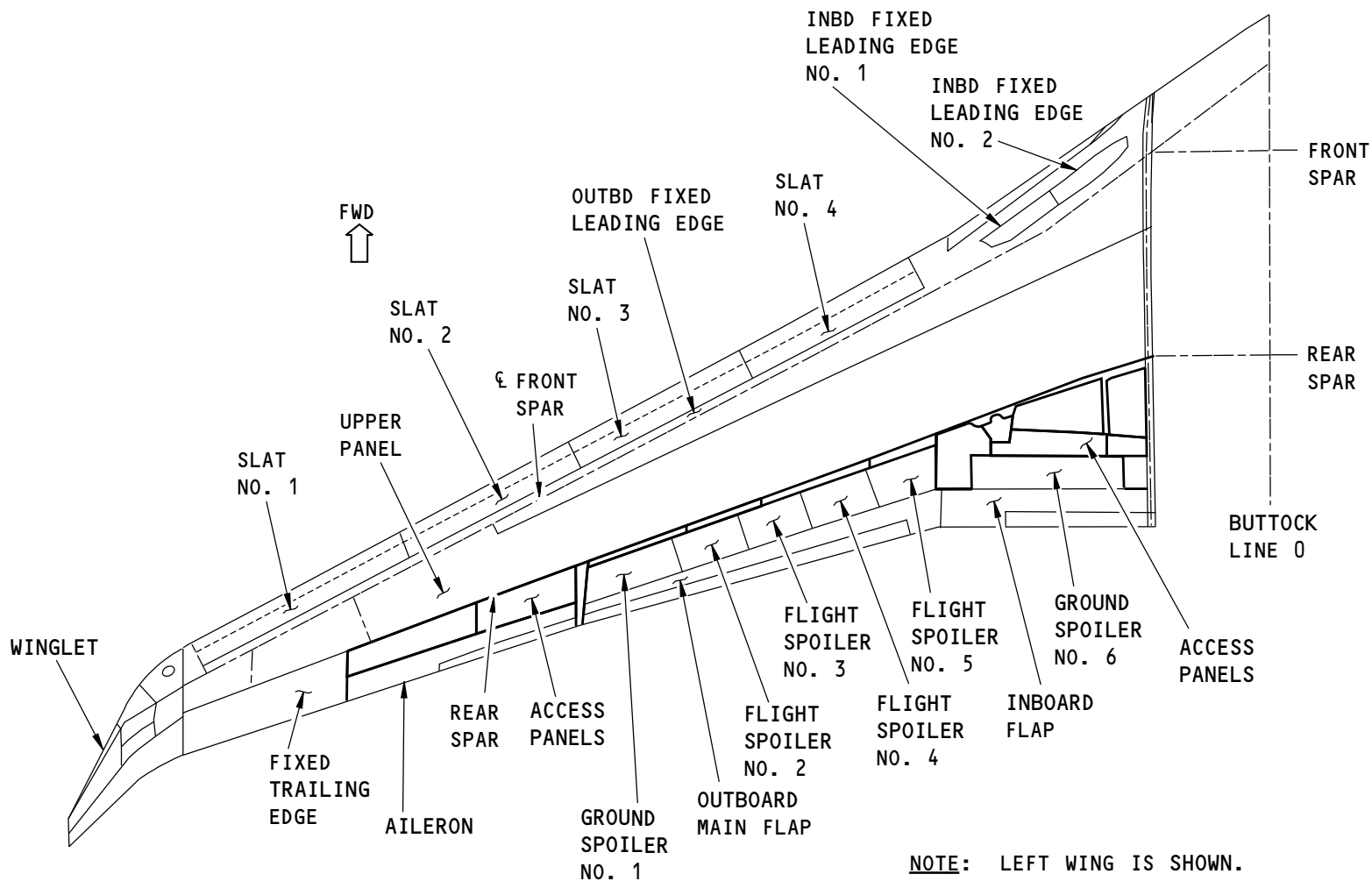
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NOTE: LEFT WING IS SHOWN.
RIGHT WING IS ALMOST THE SAME.

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WINGS - TOP VIEW - ACCESS PANELS

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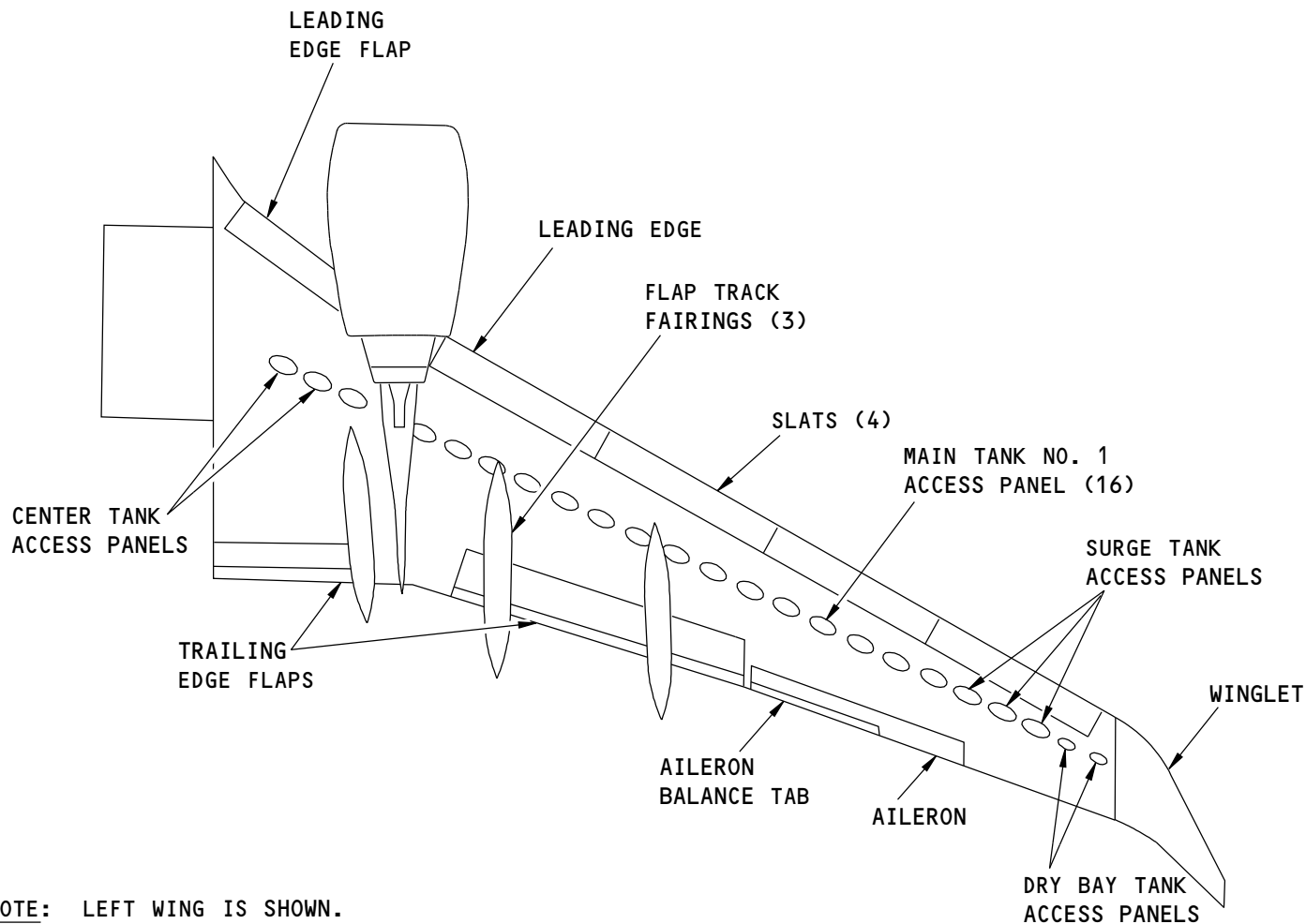
WINGS - BOTTOM VIEW - WINGLETS - GENERAL DESCRIPTION

General

The bottom of the left wing is shown. The right wing is almost the same.

- Fuel tank (or wet bay) access panels allow access into the center fuel tank, the main fuel tanks and the surge tanks.
- Dry bay access panels allow access into the dry bay tanks which are outboard of the surge tanks.
- Access panels behind the wing leading edge give access to the forward spar structure and the leading edge slat actuators and tracks.
- Access panels aft of the rear spar gives access to the rear spar structure, fuel system pumps, aileron and the trailing edge flaps mechanisms.
- Access panels in the winglet gives access to the anti-collision lights and position lights.

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NOTE: LEFT WING IS SHOWN.
RIGHT WING IS SIMILAR.

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WINGS - BOTTOM VIEW - WINGLETS - GENERAL DESCRIPTION

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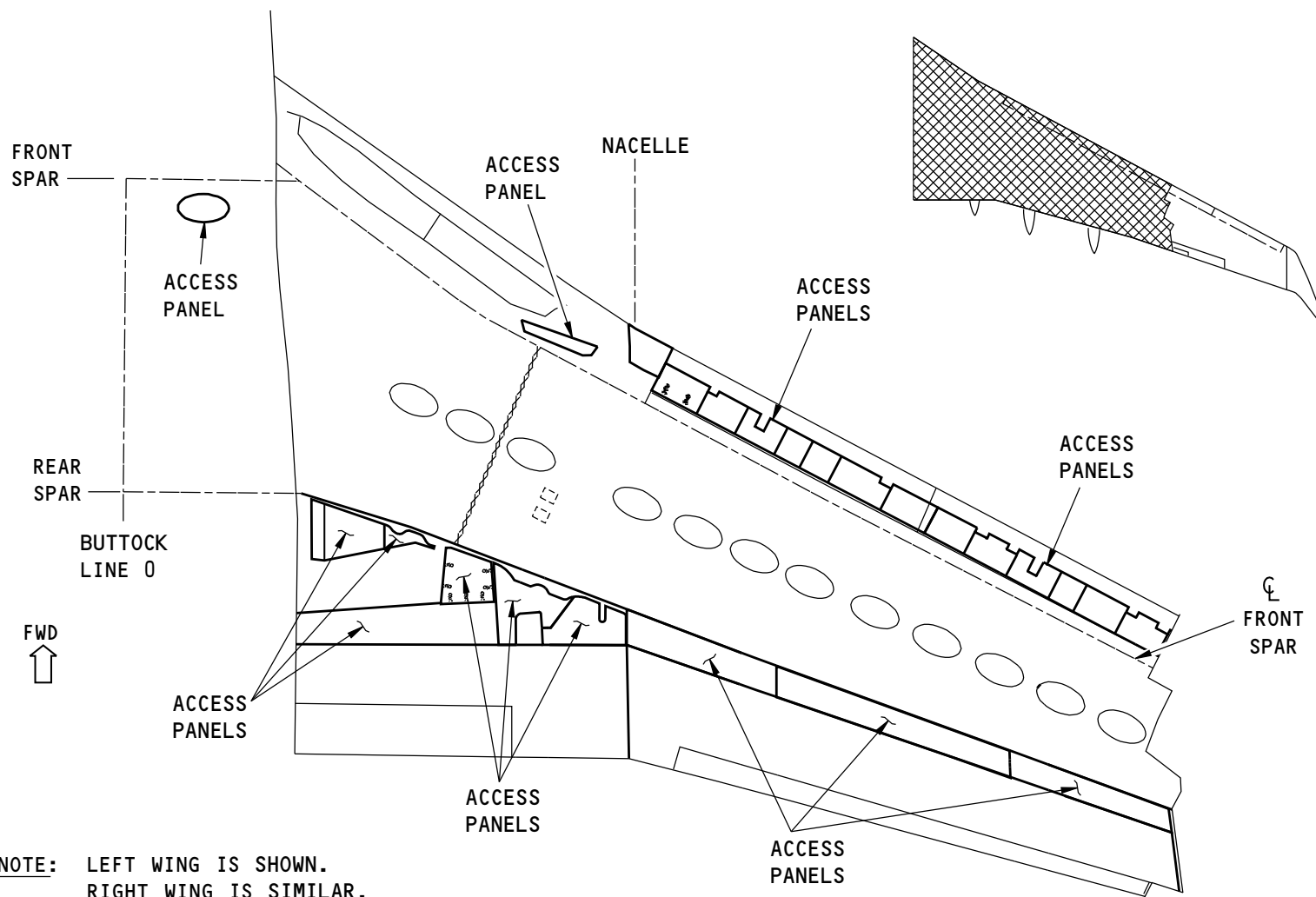
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NOTE: LEFT WING IS SHOWN.
RIGHT WING IS SIMILAR.

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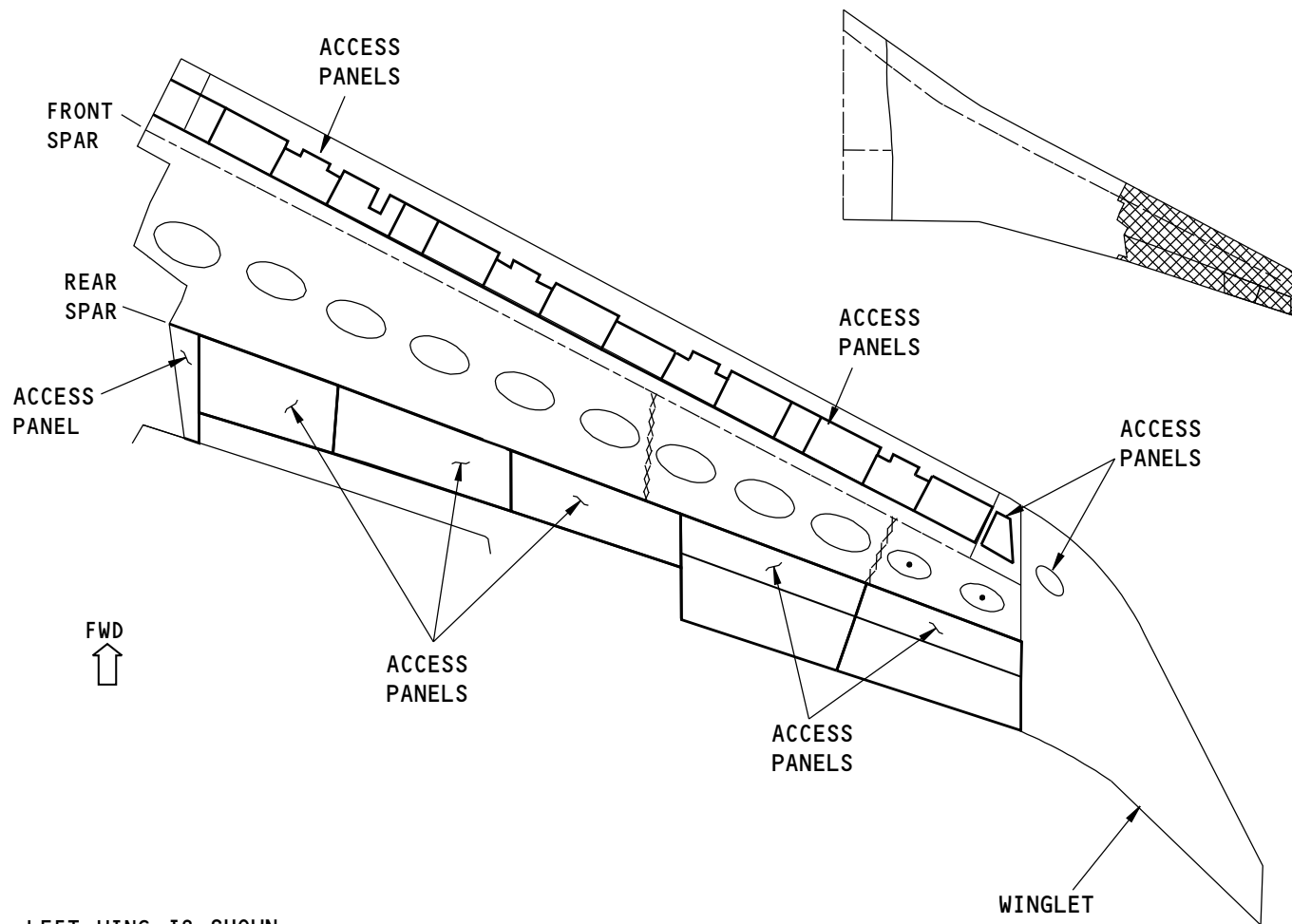
WINGS - BOTTOM VIEW - WINGLETS - INBOARD ACCESS PANELS

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NOTE: LEFT WING IS SHOWN.
RIGHT WING IS SIMILAR.

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WINGS - BOTTOM VIEW - WINGLETS - OUTBOARD ACCESS PANELS

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