CHAPTER

5

Wings

737-7/8/8200/9/10 SYSTEM DESCRIPTION SECTION



CHAPTER 57 WINGS

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

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WINGS - TOP VIEW - 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

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The winglets are attached to the outboard end of the wing.

The winglets are made up of an upper and lower blade.

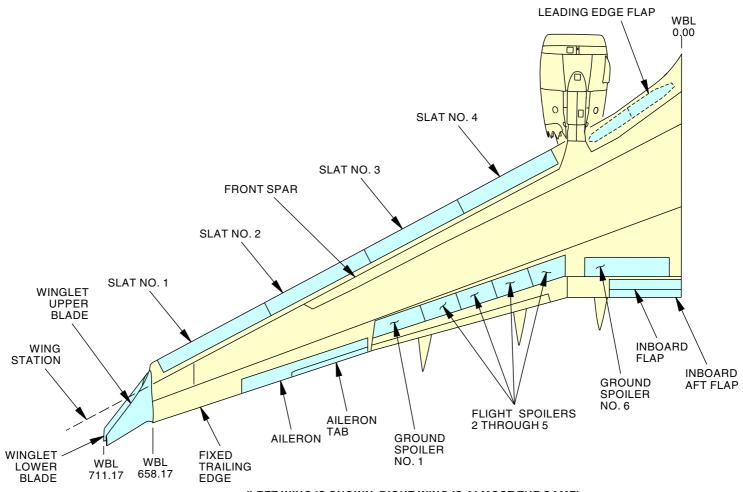
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WINGS - TOP VIEW - GENERAL DESCRIPTION



(LEFT WING IS SHOWN, RIGHT WING IS ALMOST THE SAME)

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WINGS - TOP VIEW - GENERAL DESCRIPTION

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WINGS - BOTTOM VIEW - GENERAL DESCRIPTION

General

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

These components attach to the lower surface of the wing:

- Engine nacelle/pylon
- · Trailing edge flap tracks

Access Panels

There are access panels on the lower surface of the wing that give access to the fuel tanks and other components.

- 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 areas 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.
- The access panels on the flap track fairings give access to the fairing mechanisms and the flap tracks and flap drive mechanisms.

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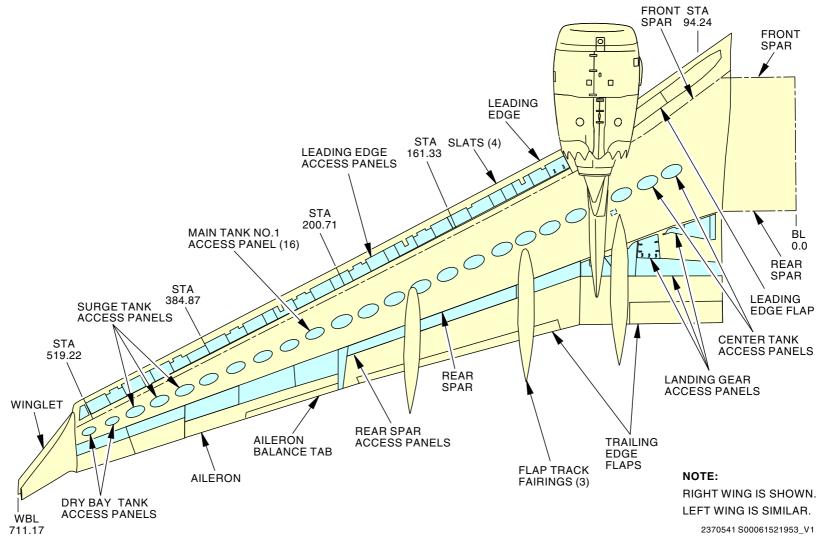
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WINGS - BOTTOM VIEW - GENERAL DESCRIPTION



WINGS - BOTTOM VIEW - GENERAL DESCRIPTION

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WINGS - BOTTOM VIEW - GENERAL DESCRIPTION

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737-7/8/8200/9/10 SYSTEM DESCRIPTION SECTION

WINGLETS - GENERAL DESCRIPTION

General

The winglets are attached to the outboard end of the wings and consist of a blended upper and lower blade.

The upper blade is approximately 9 feet long and the lower blade is approximately 6 feet long.

There are fairings at the inboard end of the winglet that allow for access to the root fittings, electrical connectors and internal structure.

The lower blade can be removed independently of the upper blade.

Structure

The upper and lower blades of the winglets are made of composite fiberglass/graphite/epoxy honeycomb material with aluminum tip fairings and trailing edge.

The root fitting of the winglet is a machined aluminum and titanium structure.

The fairings on the inboard and outboard end are fiberglass laminate with the forward transition fairing made of super-plastic formed aluminum.

Lighting

There are three lights installed on the winglet, a forward position light, an anti-collision light and an aft marker light.

All three lights are Light Emitting Diode (LED) type and are installed as an assembly.

The forward position light is installed at the outboard leading edge of the wing at the interface between the wing and the winglet.

The anti-collision light is installed in the leading edge at the inboard/upper end of the lower blade of the winglet.

The aft marker light is installed at the outboard/lower end of the lower blade integral with the tip fairing.

Erosion Protection

The upper and lower blades are covered with a polyurethane protective film to stop erosion of the leading edges and skins.

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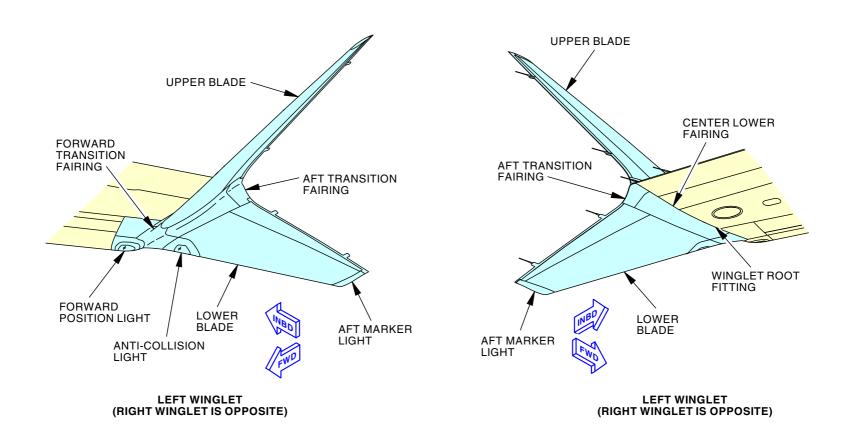
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WINGLETS - GENERAL DESCRIPTION



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WINGLET - GENERAL DESCRIPTION

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