

CHAPTER

50

**Cargo and Accessory
Compartments**



CHAPTER 50
CARGO AND ACCESSORY COMPARTMENTS

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

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CHAPTER 50
CARGO AND ACCESSORY COMPARTMENTS

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CARGO COMPARTMENTS - INTRODUCTION

Purpose

The cargo compartments provide space to carry luggage and freight.

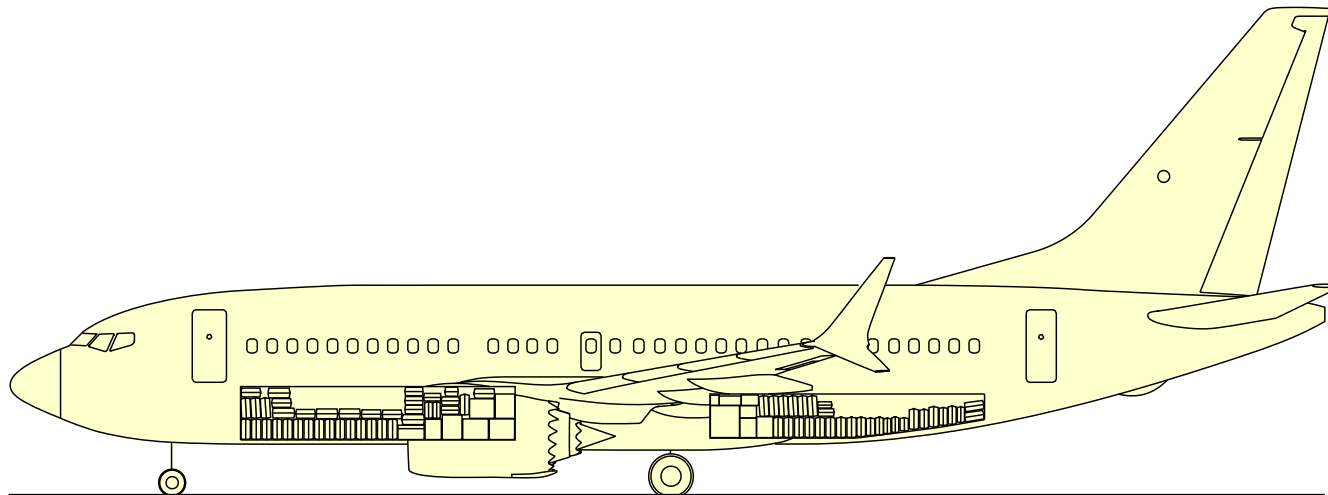
Abbreviations and Acronyms

- FWD - Forward
- MID - Middle
- TYP - Typical
- REF - Reference

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CARGO COMPARTMENTS - INTRODUCTION



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CARGO COMPARTMENTS - INTRODUCTION

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CARGO COMPARTMENTS - LOWER LOBE - FURNISHINGS

General Description

The cargo compartment has these furnishings:

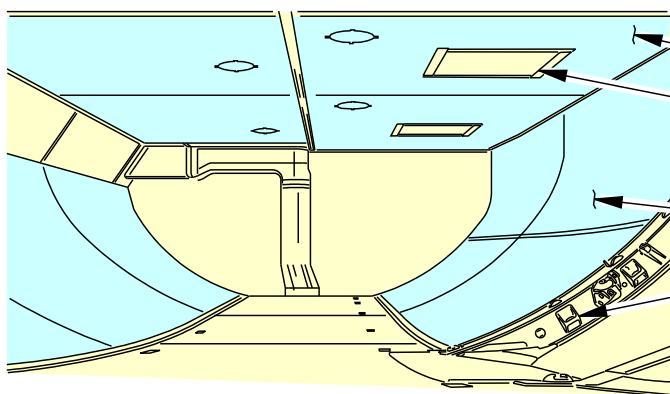
- Ceiling liners
- Sidewall liners
- Bulkhead liners
- Floor panels.

Training Information Point

See the pressurization chapter for more information on the equalization valve or blowout panel (SECTION 21-30).

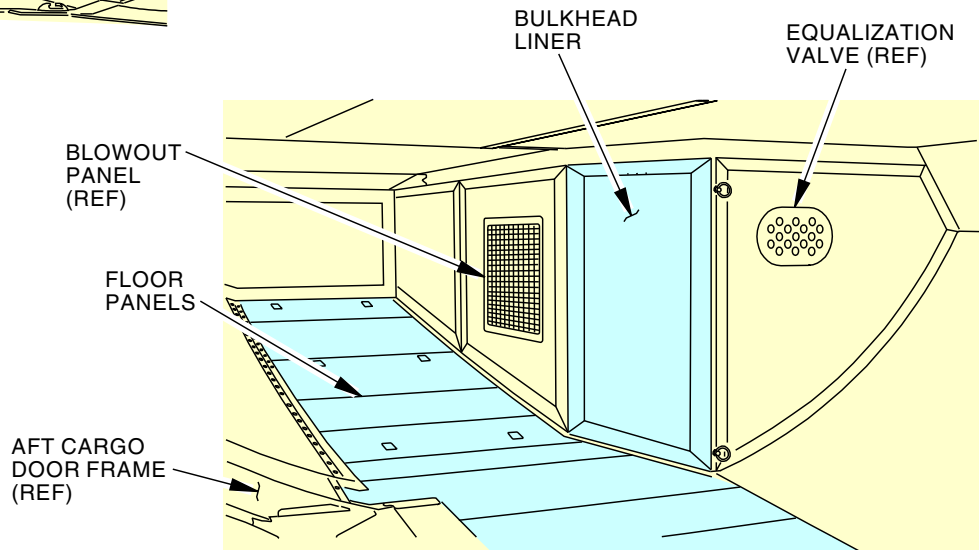
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CARGO COMPARTMENTS - LOWER LOBE - FURNISHINGS



**AFT CARGO COMPARTMENT
(LOOKING FORWARD)**

CEILING LINERS
BLOWOUT
PANEL/CARGO ACCESS
(REF)
SIDEWALL
LINERS
AFT CARGO
DOOR FRAME
(REF)



**AFT CARGO COMPARTMENT
(LOOKING AFT)**

BLOWOUT
PANEL
(REF)
FLOOR
PANELS
AFT CARGO
DOOR FRAME
(REF)

BULKHEAD
LINER
EQUALIZATION
VALVE (REF)

NOTE:

AFT CARGO COMPARTMENT SHOWN.
FORWARD CARGO COMPARTMENT SIMILAR.

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CARGO COMPARTMENTS - LOWER LOBE - FURNISHINGS

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**CARGO COMPARTMENTS - LINING AND INSULATION****Purpose**

The cargo compartment lining gives an attractive, water-resistant, fire-barrier for the cargo compartments.

Insulation keeps the contents of the cargo compartments warm when the airplane is in flight.

Location

The cargo compartment lining covers the ceilings, walls, and floors of the forward and aft cargo compartments.

Insulation is installed on the outboard of the cargo liners and below the passenger compartment floor.

Lining

The cargo compartment has fire-resistant panels that line the ceiling. Screws and capstrips attach the panels to the airplane structure. A seal is installed between the panels and the airplane structure. Fire resistant tape covers all of the fasteners, seams, and the panel joints.

The cargo compartment has fire resistant panels that line the sidewalls. Screws attach the panels to the airplane structure. Hook-and-loop tape secures the middle of the panels to the airplane structure. Fire resistant tape covers all of the screws, seams, and the panel joints.

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A seal is installed between the ends of the panels and the airplane structure.

SIA 015-999

A seal is installed between the ends of the panels and the airplane structure at the edges of the sidewall liners adjacent to the bulkhead liners.

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The cargo compartment has fiberglass/aluminum panel assemblies that line the bulkheads. The panel assemblies are fiberglass/aluminum honeycomb-core panels with aluminum frames. Fasteners attach the panel assemblies to the airplane structure. A seal is installed between the frames and the airplane structure.

The cargo compartment floor panels are glass reinforced phenolic or aluminum. Bolts and capstrips attach the floor panels to the airplane structure. Sealant is installed between all panel seams and between panels and the airplane structure.

A seal is installed between the panels and the supporting structure. Fire resistant tape seals the panel seams, fastener holes, and joints. Sealing the panels makes the cargo compartment air tight and is a requirement for Class C fire suppression.

Insulation

Insulation blankets are installed outboard of the sidewall lining and below the passenger compartment floor. Most blankets fasten to the airplane structure with plastic studs and clips. Nylon lacing holds the larger sidewall blankets in place. This lacing runs across the inboard surfaces of the blankets and between adjacent body frames. Hook-and-loop tape also fastens some parts of certain blankets.

A typical blanket has a layer of fiberglass wool, an inboard cover, and an outboard cover. The two covers are stitched or cemented together at the blanket edges. There may be a trim strip and fastener tabs along the edges. The blankets vary in size and shape, each is tailored to fit its surroundings. Blankets that cover the body frame intercostal webs have holes that match the holes in the intercostal webs. The holes let the air to circulate between the inboard side of the blanket and the sidewall lining.

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CARGO COMPARTMENTS - LINING AND INSULATION

Plastic waffle mats are installed between the insulation blankets and the lower lobe. The mats let moisture drain into the bilge drain valves.

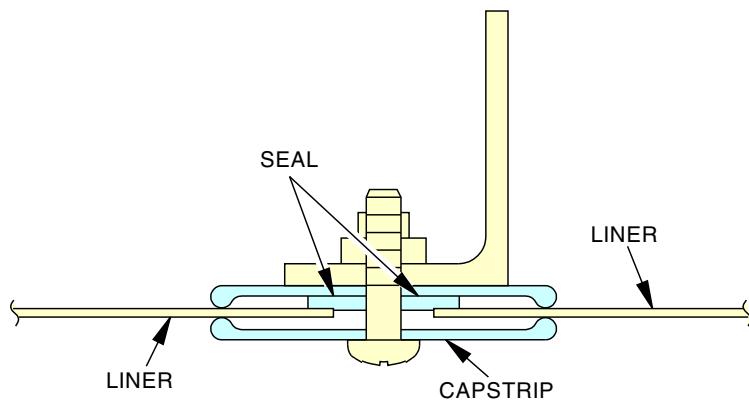
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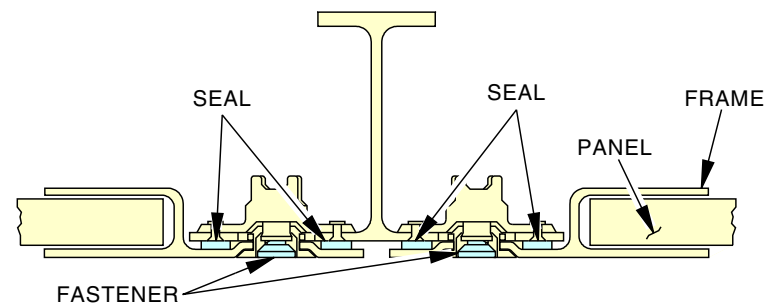
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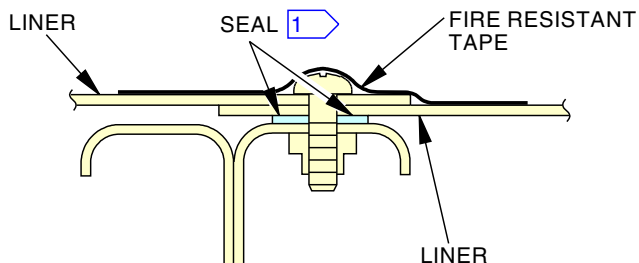
CARGO COMPARTMENTS - LINING AND INSULATION



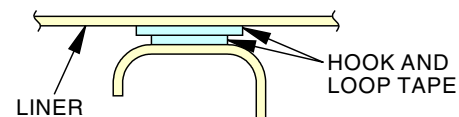
CEILING LINER



BULKHEAD LINER



SIDEWALL LINER



**SIDEWALL LINER
(MID-PANEL)**

1 IF INSTALLED

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CARGO COMPARTMENTS - LINING AND INSULATION

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**CARGO COMPARTMENTS - FORWARD CARGO - ACCESS PANEL****Purpose**

The access panel lets you enter the forward cargo compartment from the passenger compartment.

Physical Description

The access panel is 20 in. (508 mm) long and 20 in. (508 mm) wide. A handle is installed on the top side of the access panel. The access panel is attached to the structure with quick-release fasteners.

Location

The access panel is installed on the right side of the passenger compartment, below a floor panel (near the tenth window cutout from the front). The access panel is covered by a section of the carpet with a serge around the edges.

Training Information Point

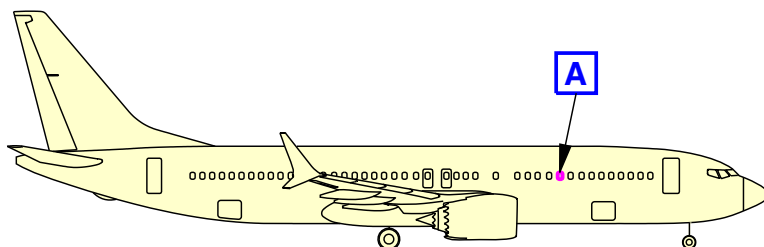
You use the access panel when the forward cargo door is difficult to unlatch. This could be caused by blockage of the inner handle latch mechanism.

If the aft cargo door is difficult to unlatch, use the aft ceiling blowout panel. This panel is on the right side of the passenger compartment floor. It is near the eight window cutout from the rear.

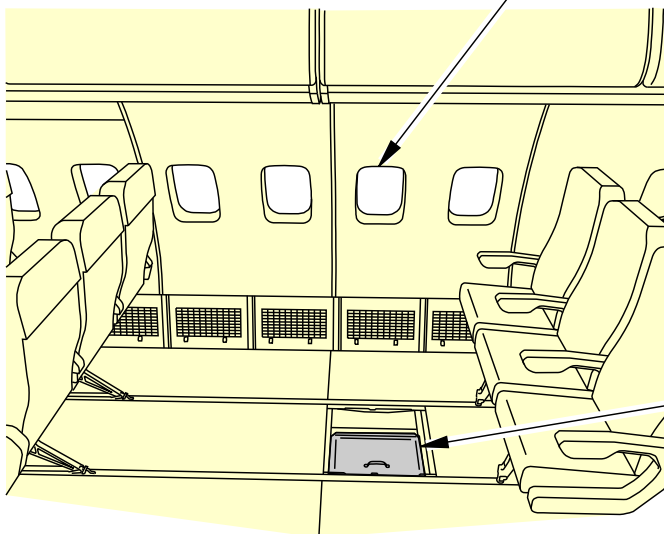
See the pressurization chapter for more information on the aft cargo compartment blowout panel (SECTION 21-30).

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CARGO COMPARTMENTS - FORWARD CARGO - ACCESS PANEL

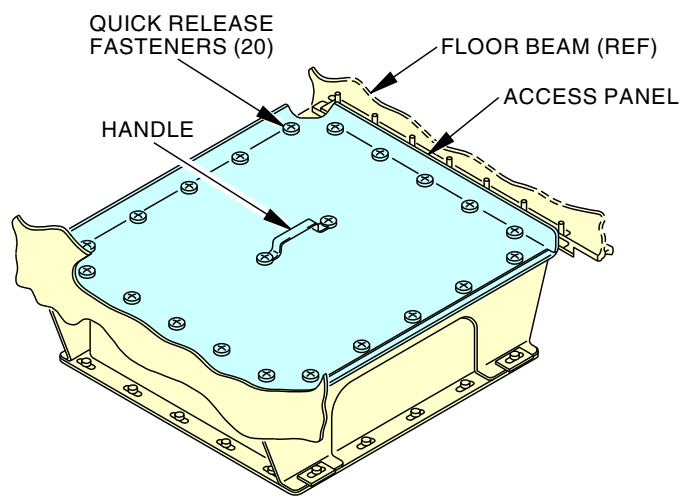


TENTH WINDOW (REF)



PASSENGER COMPARTMENT
(CARPET AND FLOOR PANEL REMOVED)

A



ACCESS PANEL

B

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CARGO COMPARTMENTS - FORWARD CARGO - ACCESS PANEL

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**CARGO COMPARTMENTS - LOWER CARGO NET****Purpose**

The lower cargo net prevents the cargo from moving during the flight.

Location

The cargo nets are installed in the lower cargo compartments, forward and aft of the lower cargo compartment doors.

Cargo Nets

The cargo nets are attached to anchorplates that are installed just forward and aft of the cargo door on the floor, sidewalls, and ceiling.

When the two full-width cargo nets are used, cargo may be forward and aft of the cargo door, but may not be inboard of the cargo door. When the centerline cargo net is used, additional cargo can be installed outboard of the centerline net between the two full-width cargo nets.

The cargo nets are made of 1 in. (25 mm) wide fabric straps sewn together to make a web. Solid cloth panels are sewn to the straps in some areas to fill the openings between the straps. Some strap ends have quick-release tie-downs. Other strap ends have snap latches or D-rings.

Anchorplates

The anchorplates are installed on the floors, sidewalls, and ceilings of both cargo compartments. The anchorplates hold tiedown fasteners on the outboard edges of the cargo nets. The upper surfaces of the anchorplates are almost flush with the cargo panels.

Tiedowns

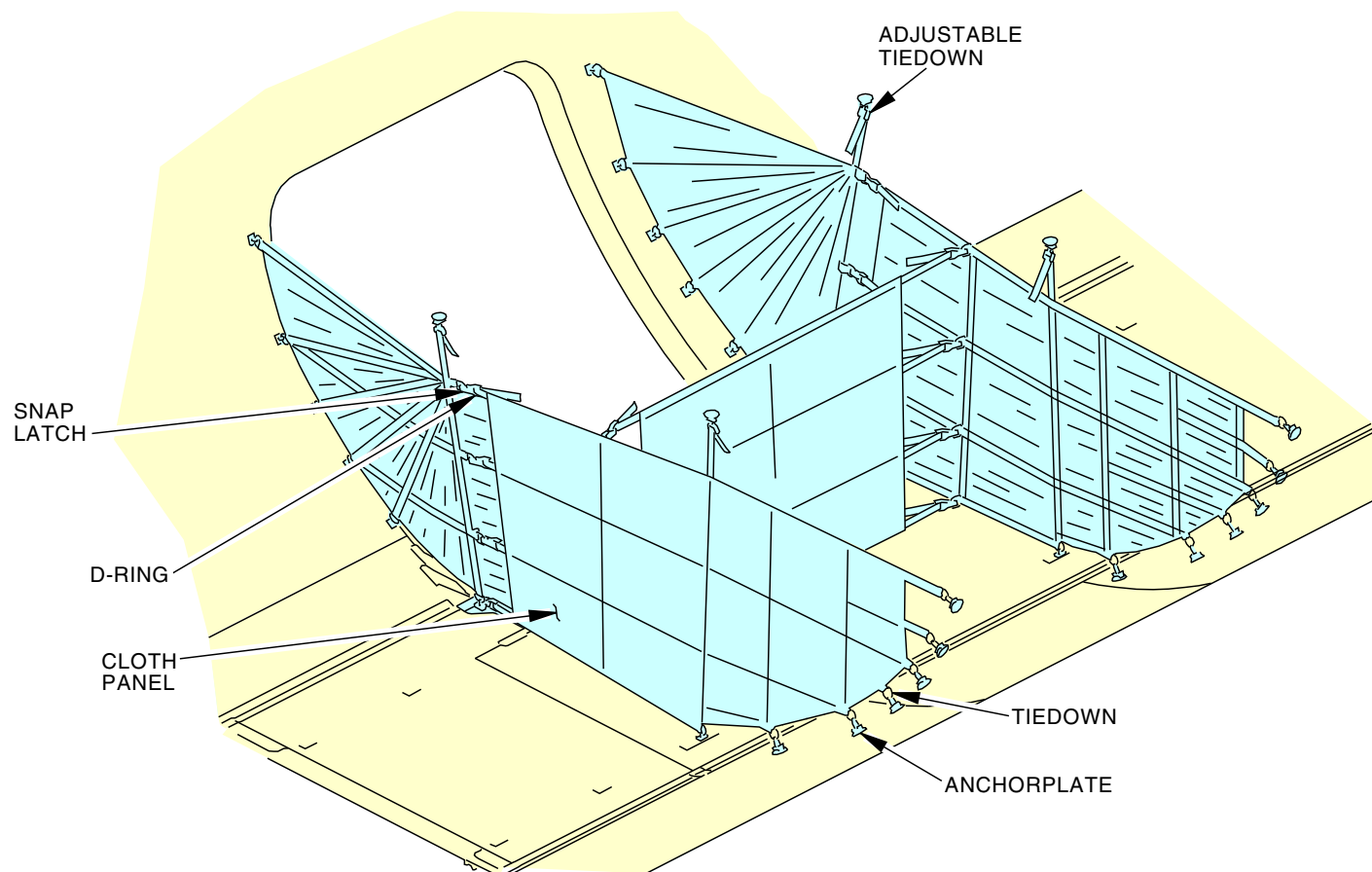
The tiedowns are quick-release fasteners, which connect the outboard edges of the cargo nets to the anchorplates in the cargo compartment.

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CARGO COMPARTMENTS - LOWER CARGO NET



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CARGO COMPARTMENTS - LOWER CARGO NET

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