

**BOEING737 DOORS OPERATION USER MANUAL**



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Lokesh Maddila

## Boeing 737 Door Usage Manual

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Printed: May 2024 at VIZAG, ANDHRA PRADESH

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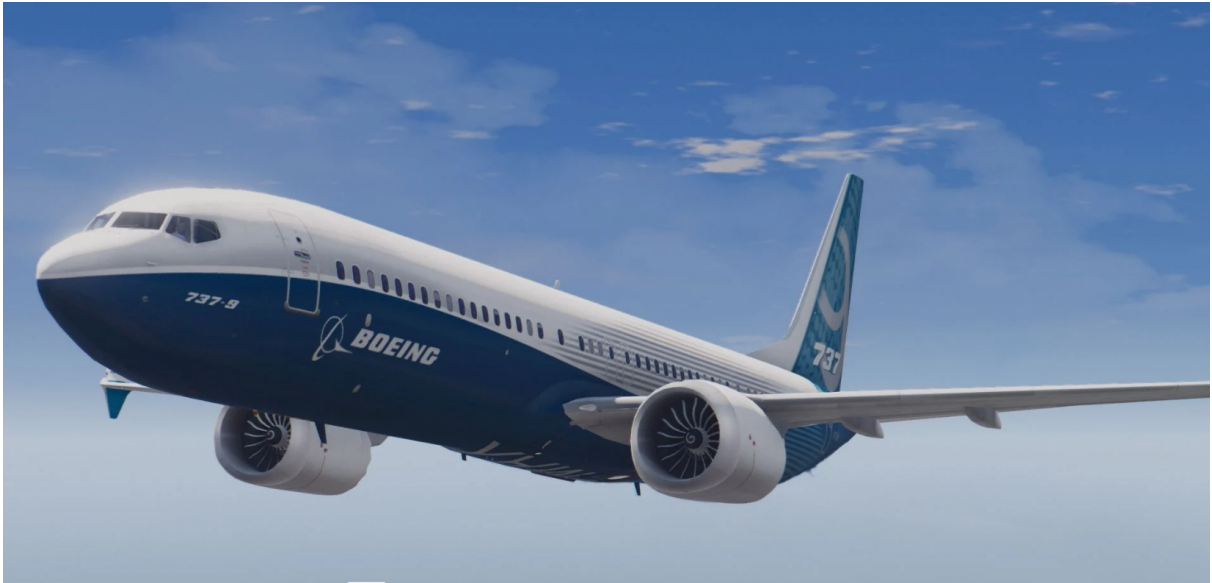
# Introduction

## 1 Introduction

This chapter introduces the user manual on how to operate the doors of the **Boeing 737** and the emergency procedures such as Evacuation and Ditching.

### 1.1 Welcome

Welcome to the Aircraft Doors Usage Manual for the **Boeing 737**. We hope this manual helps you to use and get familiar with doors of the aircraft and other procedures such as emergency evacuation and ditching.



### 1.2 Boeing 737 Doors

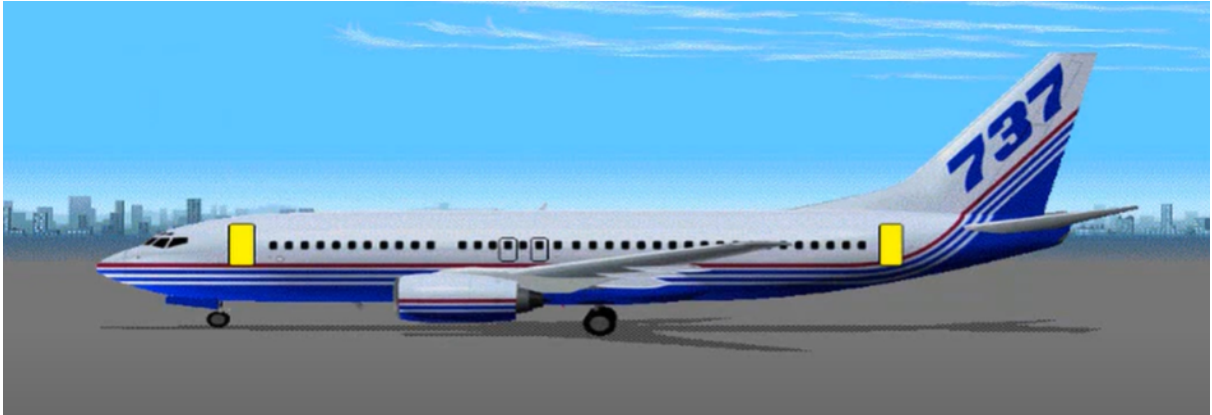
This topic introduces the various Aircraft Doors of the **Boeing 737**.

#### View of the doors from right side

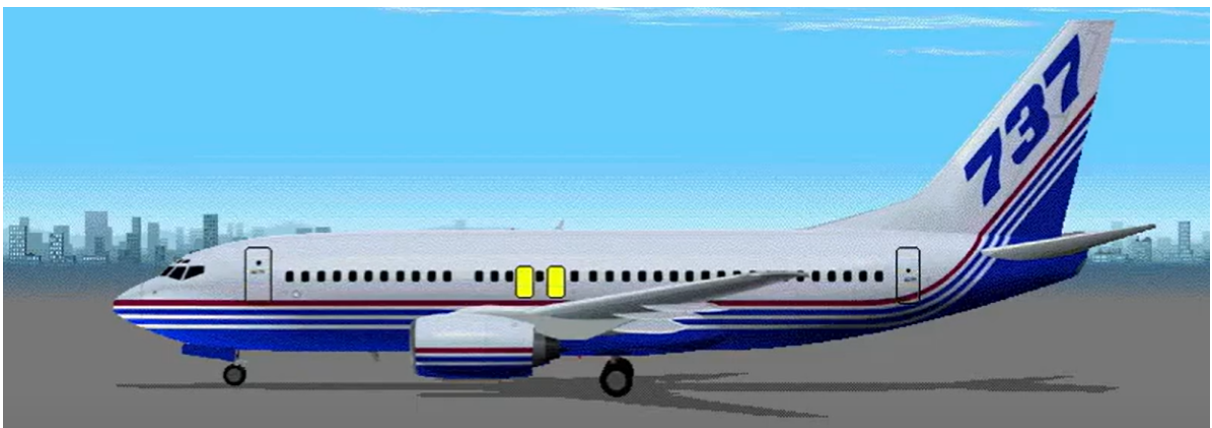


These doors are used for servicing the cabin and galleys.

#### View of the doors from left side



These doors are used for passenger entry and exit.



There are four emergency exits, two over each wing. Packed in each entry and service door is an automatically deployed evacuation slide.

Here are detailed images of the doors mentioned above.

## 1. Forward left passenger door

This is the main entrance into the plane for passengers



## 2. Forward right passenger door

Another main entrance for passengers





### 3. AFT left passenger door

Typically used for servicing cabin and galleys.



### 4. AFT right service door

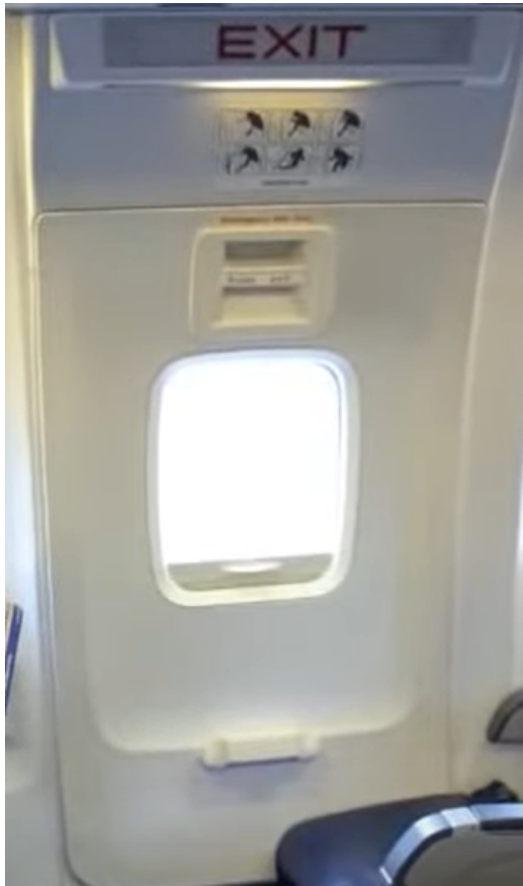


**Boeing 737 Emergency doors**

**Boeing 737 emergency door from the outside**



**Boeing 737 emergency door from the inside**



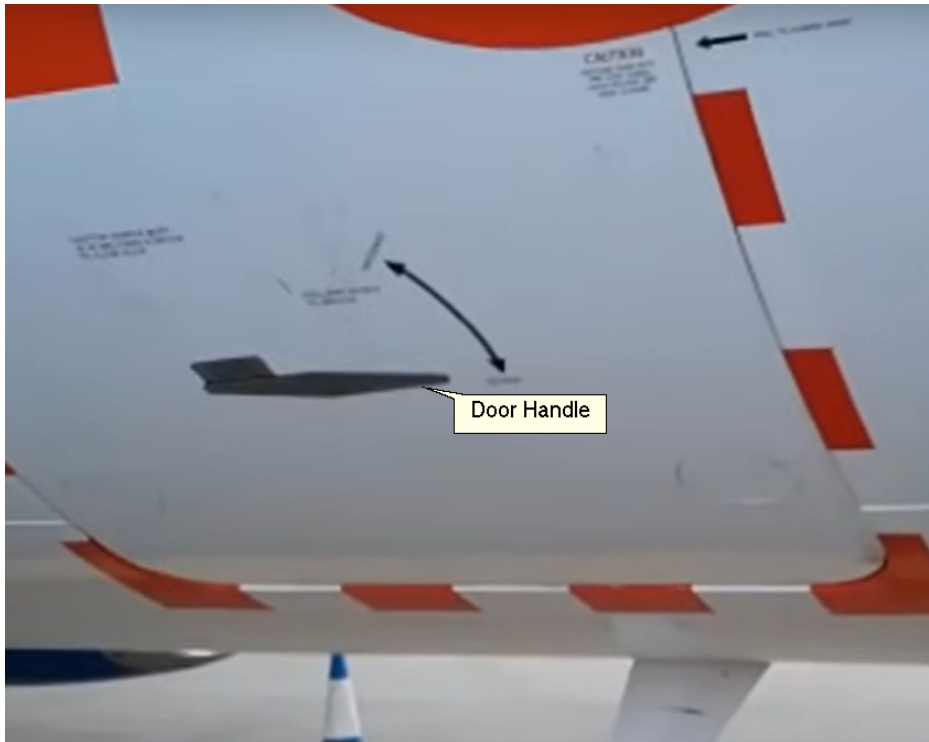
**Boeing 737 Cockpit door**



**Cockpit emergency door**



**Cargo door**



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# Using the Doors

## 2 Using the Doors

This chapter discusses opening and closing the doors of the Boeing 737.


### 2.1 Opening Doors

This topic explains how to open the doors of the Boeing 737.




**To open the door from outside**



1. Check that the red strap  is visible through the window in the middle of the door.

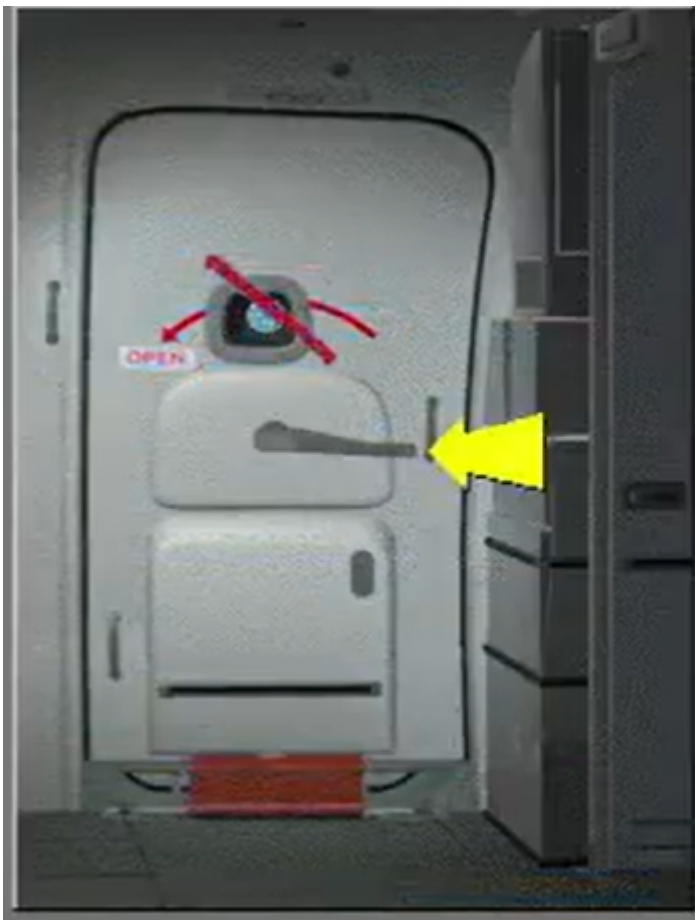
**Note:** Do not proceed to open the door if the red strap is not visible.

2. Pull the handle  out and rotate the handle fully one round, in the clock wise direction until the door is unlocked.

3. Pull the door towards you by holding at the bottom and fold it towards the airplane body.

**Note:** The door is held open by a latch on the top hinge. Also, turn the handle slowly to avoid patches and dents.

## To open the door from inside



**Note:** Check the outside from the viewing window for people and any other obstructions.

1. Hold the handle and rotate in the direction of the arrow (to the left). The door rotates in about 45 degrees.
2. Push the door out wards until the door locks against the fuselage.



3. Hold the handle besides the door while opening the door and engage the latch after opening the door.

**Note:** Rotate the handle slowly to avoid any rapid or sudden movements.

## 2.2 Closing doors

This topic explains closing the doors of the 737 from inside and the outside.

### To close the door from inside.

1. Press the latch down to release it.
2. Locate the handle beside the door that helps to pull the door inwards to the 45 degree position.
3. Seal and latch the door by rotating the operating handle towards the right.

**Note:** Once the door is closed check around the door frame to ensure that the door is fitted correctly.

### To close the door from outside



1. Release the latch..
2. Hold the door handle located on the inside of the door to pull inside. The door begins to move towards the plane and closes.
3. Pull the door handle and rotate it anti-clockwise, one full round and press it back into its original position.

**Note:** Ensure the outside handle is fully back in its recess. Avoid putting hands or fingers at the door edges while closing the door.

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**Cockpit door**

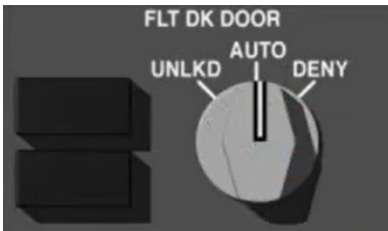
## 3 Cockpit door

This chapter explains opening of the cockpit door or cabin door. It is electrically locked isolating the passenger cabin from the flight deck.

### 3.1 Opening cockpit door

This topic explains opening of cockpit door. Note that the cockpit door can be opened by the Pilot from the inside using the Flight Deck Control Panel and from the outside by the crew.

Flight Deck Control panel where cockpit door can be handled



Panel beside the cockpit door that can be operated by the crew.



## To open the cockpit door from outside



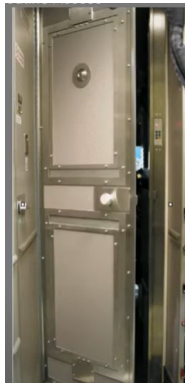
1. Access the Emergency Access panel located besides the door.



2. Press 1 on the access panel and press the enter button. The Red light switches on and the Pilot gets notification on the FLT DECK CONTROL Panel to open door.



3. Push and rotate the door selector to the unlock position. The Green light switches



on and the door opens





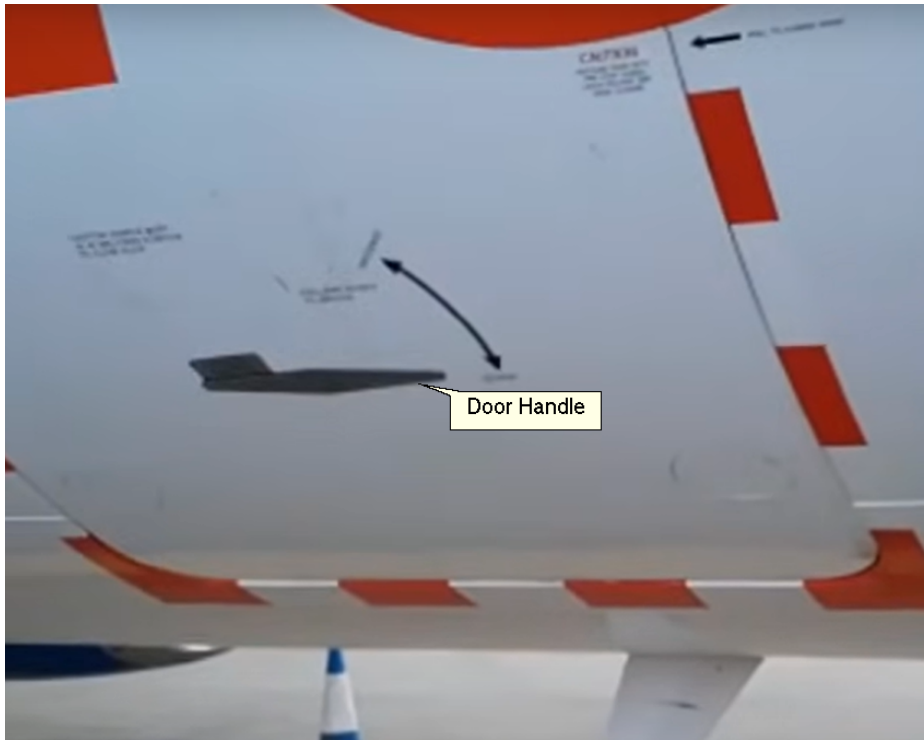
**Cargo door**

## 4 Cargo door

This chapter explains opening and closing of the cargo doors.


### 4.1 Opening cargo door

This topic explains opening of cargo door. Note that the cargo doors are similar to the cabin doors except that they do not have gates and they open inwards.



1. Pull the handle out 

2. Turn the handle in an anti-clockwise direction.

3. Push the door inside to open the door. The door folds up 

## 4.2 Closing cargo door

This topic explains how to close cargo door of the Boeing 737.



1. Locate the Lanyard besides the door with the handle on it.



2. Hold the handle of the Lanyard to pull the door towards you till the door handle reaches you.

3. Hold the handle and pull the door down fully and lock it by turning it clockwise.

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# Emergency Procedures

## 5 Emergency Procedures


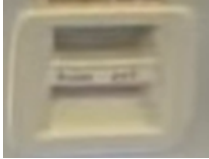
Emergency procedures for opening doors form a critical part of the 737's operations. In this chapter we discuss these procedures for two types of emergency doors and also the washroom door.

### 5.1 Opening emergency door - Type 1

This topic explains the opening of the emergency doors. These doors are also called over wing exits and these can be opened both from inside or outside the aircraft and can be detached. There are two of them one on either side of the aircraft.



## To open the emergency door from the inside

1. Hold the assisting handle  with one hand.
2. Hold the operating handle  with your other hand and pull inwards and down. The door comes out of the frame.
3. Rotate the door if possible and eject it (throw it) through the opening out of the aircraft.

## 5.2 Opening emergency door - Type 2

This topic explains the opening of the emergency door both from the inside and outside of the aircraft, where the door is not detached from the plane. This door is used on the Boeing 737 700 NextGen aircraft. The topic also explains how to close this emergency door once it is opened.


### To open the emergency door from the inside



1. Remove the case cover located on the top of the door.

**Note:** Ensure that the ribbon of the bottom case is removed before you open this door. The ribbon helps you while closing the door.




2. Hold the handle  and pull towards you.
3. The door opens outside and folds up on the outside.





To open the emergency door from the outside



1. Locate the Handle box  at the top of the door.

2. Push the handle inside. The door folds upwards.



## 5.3 Closing emergency door from inside

This topic explains the closing of the emergency door from inside the plane. In this procedure the door is not detached from the plane. This door is used on the Boeing 737 700 NextGen aircraft.

**To close the emergency door**



1. Locate the ribbon that was detached from the lower box while opening of the door.
2. Hold the ribbon and pull the door towards the opening till it locks in place




## 5.4 Emergency opening of Washroom Door

This topic explains the emergency opening of the washroom door in case it gets locked.

**To open the washroom door in case of emergency**



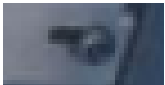
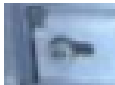


1. Locate the little plate  at the top of the door that reads **LAVATORY**.
2. Open the plate and locate the pin inside.
3. Slide the pin to open the door.

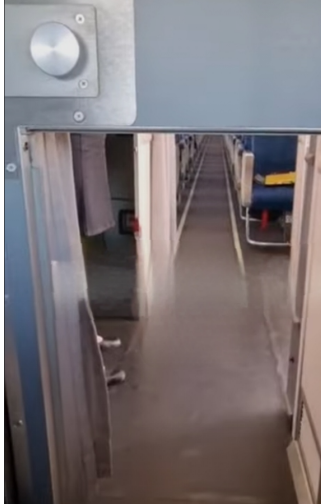
## 5.5 Emergency opening of Cockpit Door

This topic explains emergency exit for the cockpit door.



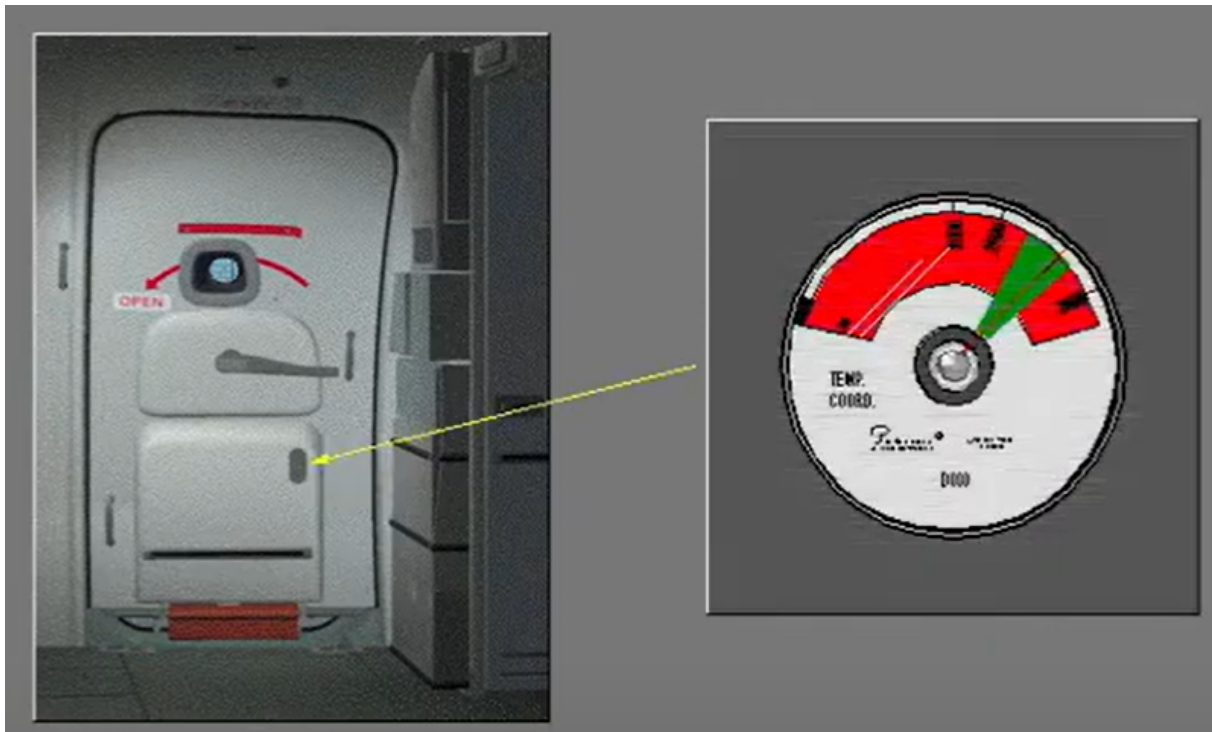
1. Locate the two pins   above the label that reads, "**EMERGENCY EXIT**".

2. Slide pins inwards
3. Pull the door outside to remove it.



## 5.6 Evacuation Procedure

This chapter introduces the evacuation procedure for each service and entry door.





1. Locate the evacuation slide in the compartment



2. Inspect the evacuation slide by checking inflation bottle pressure.



**Note:** Pressure is sufficient if the needle is in the green band

3. Locate the girt bar at the bottom of the door.

4. Remove the rod from the door hooks and attach it to the floor brackets connected with



fuselage.



5. Place the red strap across the window.

6. Open the door. The evacuation slide



automatically inflates very quickly.



**Note:** If the evacuation slide does not inflate automatically pull the handle to inflate it manually. The evacuation slide can be used as a passenger floatation device too.



## 5.7 Ditching

This chapter introduces the ditching procedure for each service and entry door.

Ditching procedure can be done when the evacuation slide may not inflate and when the exit is blocked.



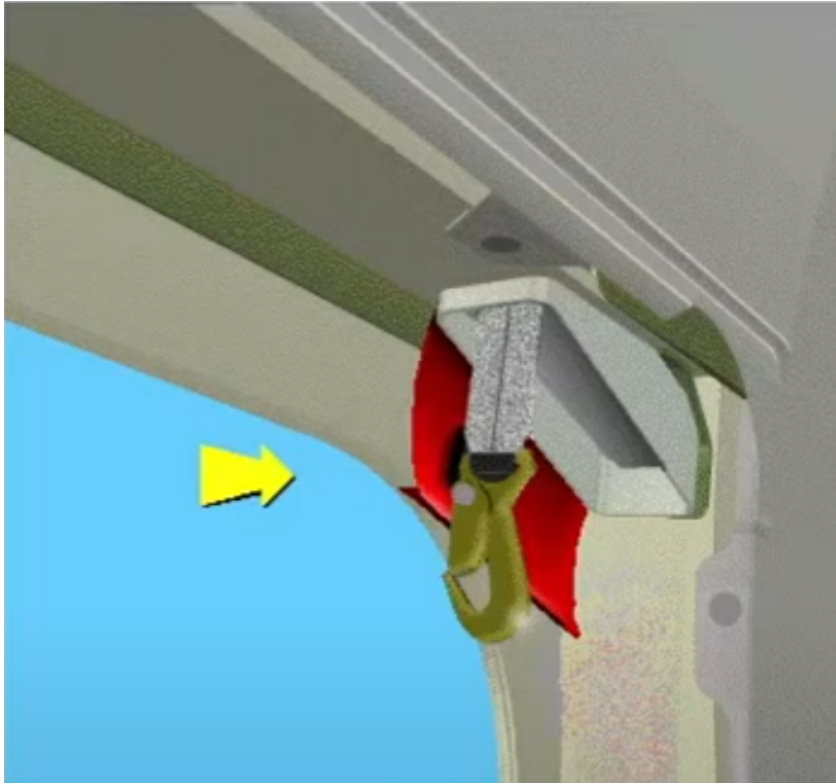


1. Open the door.

2. Detach the evacuation slide  from the airplane.

3. Lift the flap  and pull the handle. The detachable portion of the door can be removed now.

4. Locate strap on exit frame.

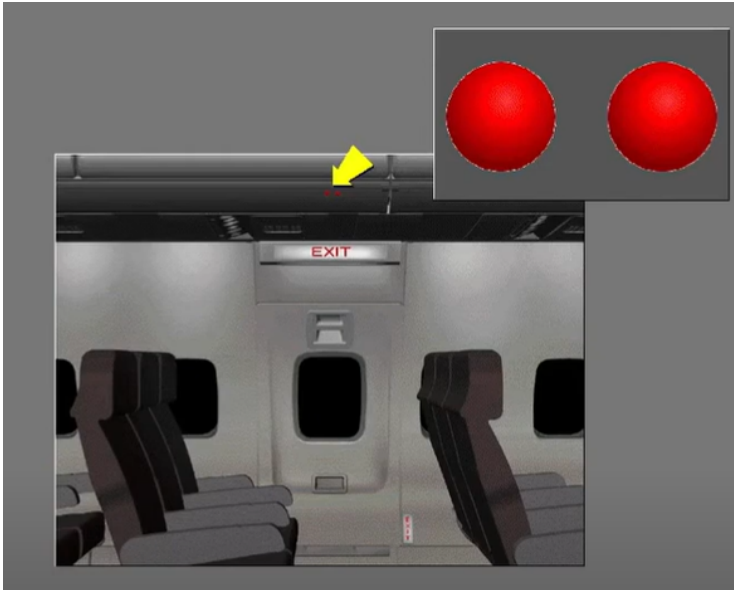


5. Pull the strap and attach it to the top surface of the wing.



**Note:** Strap is used as handhold by evacuees exiting the plane. Evacuees slide down the flaps and get off the wing.

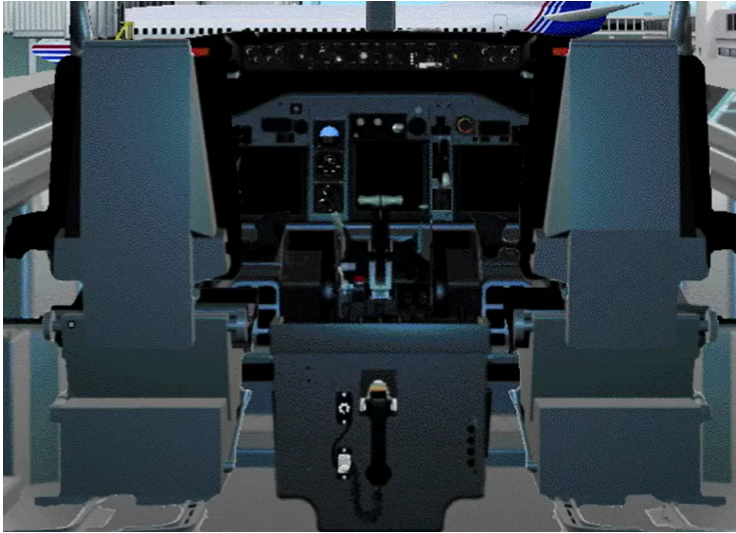
Tactile locators (two raised knobs) used as Door indicators for the visually impaired and people with poor visibility.



## 5.8 Door Annunciator Panel

This panel and other warning lights help in identifying doors that are open.

Lights on the door Annunciator panel alert the crew when a door is not correctly closed and latched.



## Notification panel



Cockpit crew gets notifications of all doors when the doors are open.



If the lights are "off" then it can be concluded that all doors are closed properly.

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