

Prototype 1

## Gulfstream G450 to G550 Differences

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Welcome to this course about Gulfstream 450 to 550 differences.

## Are you ready to begin?

Select all that apply, to confirm you are ready to begin

G550



You are certified  
on the G550



G450



You want to become  
certified on the G450



Other requirement



To take this course, you should already be certified to operate the G5 50, and want to learn how the G4 50 operates differently.

Confirm you are ready to begin, by selecting each requirement, and then selecting Submit.

## Importance of knowing differences

**G550**



- Correct operation
- Safety
- Comfort

**G450**



Correct understanding of G4 50 specifications and differences is essential, for correct operation of the aircraft, and the safety and comfort of passengers and crew.

## Topics

- ① Aircraft General
- ② Avionics
- ③ APU
- ④ Electrical
- ⑤ Fuel
- ⑥ Powerplant
- ⑦ Hydraulics
- ⑧ Flight Controls
- ⑨ Pneumatics
- ⑩ Ice and Rain protection

The course is organised under these ten topics:

Aircraft General.

Avionics.

APU.

Electrical.

Fuel.

Powerplant.

Hydraulics.

Flight Controls.

Pneumatics.

And Ice and Rain Protection.

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**BEGIN**

Let's get started!

## Topics

- 1 Aircraft General**
- 2 Avionics
- 3 APU
- 4 Electrical
- 5 Fuel
- 6 Powerplant
- 7 Hydraulics
- 8 Flight Controls
- 9 Pneumatics
- 10 Ice and Rain protection

Topic 1 is Aircraft General

## G550 to G450 Visual Differences

### G550



- 7 windows

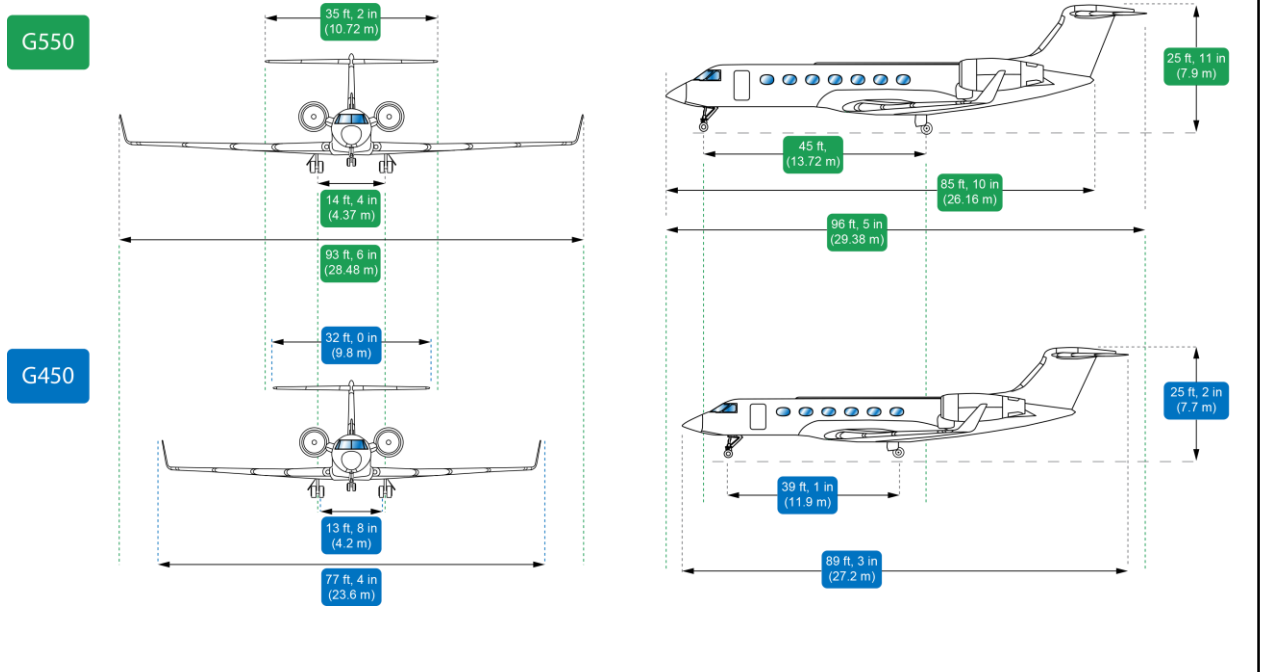
### G450



- 6 windows
- Main door further forward

The primary visual difference in the G450 is that it has 6 windows, instead of 7 on the G550. And its main door is further forward.

## Exterior Dimensions

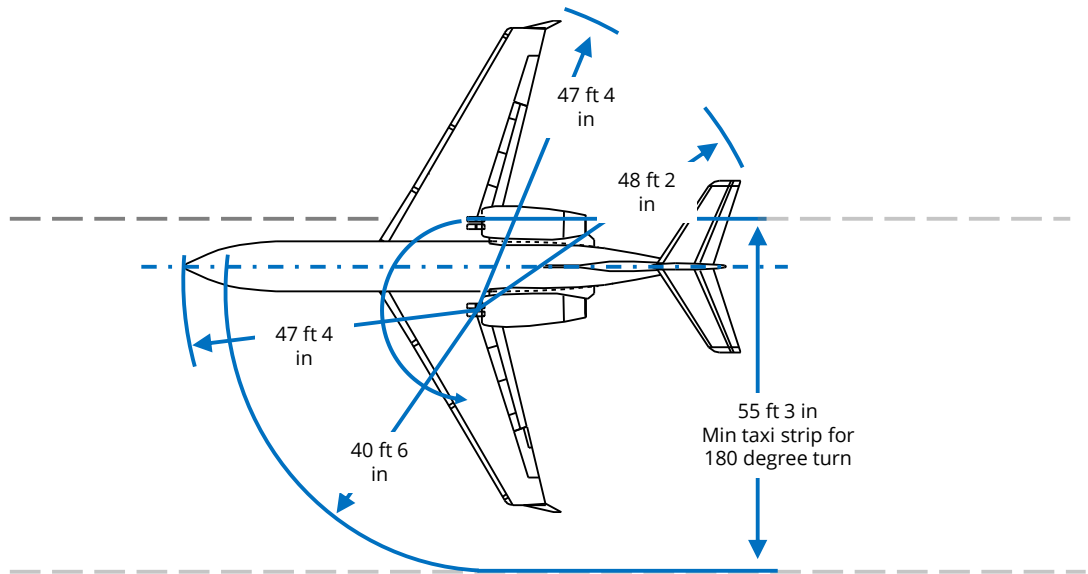


The G450 is about 10% shorter. Though the heights are similar.  
And the G450 has about 8% shorter wing and tail span.



## Turning Dimensions



- It takes 7 ft less of available space for the G450 to make a 180 degree turn, compared to the G550.



On the ground, that means the G450 can make 180 degree turn in a shorter, narrower taxi-way ...

## Fuel



- The G450 has a lower fuel capacity.

	Wing Tanks	Total
 <b>G550</b>	20,650 lb / 3,059 gal	41,300 lb / 6,118 gal
 <b>G450</b>	14,750 lb / 2,185 gal	29,500 lb / 4,370 gal

The 2000 nautical mile difference in range, can be explained largely by the fuel capacity. The G550 holds 11,800 lbs more fuel than the G450. It is possible to add additional fuel only if the total weight and CG are within the aircraft's maximum limits.

## Weight

- The decreased fuel storage capacity means the G450 is a lighter aircraft.

	Zero Fuel Weight	Ramp Weight	Takeoff Weight	Landing Weight
 <b>G550</b>	54,500 lb	91,400 lb	91,000 lb	75,300 lb
 <b>G450</b>	49,000 lb	74,300 lb	73,900 lb	66,000 lb

The difference in the fuel storage capacity automatically impacts the weight of the two aircraft. The decreased fuel capacity of the G450 means it weighs less than the G550 overall.

## More content

- Coming soon ...

## Knowledge Check

- Select the correct answer.

The total fuel the G450 can carry is:

- 29,500 lb / 4,370 gal
- 41,300 lb / 6,118 gal
- 39,300 lb / 5,818 gal



Show me again

## Knowledge Check

- Select the correct answer.

The maximum Ramp Weight of the G450 is 91,400 lb.

- True
- False

 [Show me again](#)

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## Gulfstream G450 to G550 Differences

### MASTERY TEST

80% pass score required

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The following final exam questions confirm your mastery of the course concepts.  
Score at least 80% in each category, for course completion.