

Center of Gravity Limits

Reference Datum 100 inches forward of firewall

Forward *Refer to Figure 2-1*

Aft *Refer to Figure 2-1*

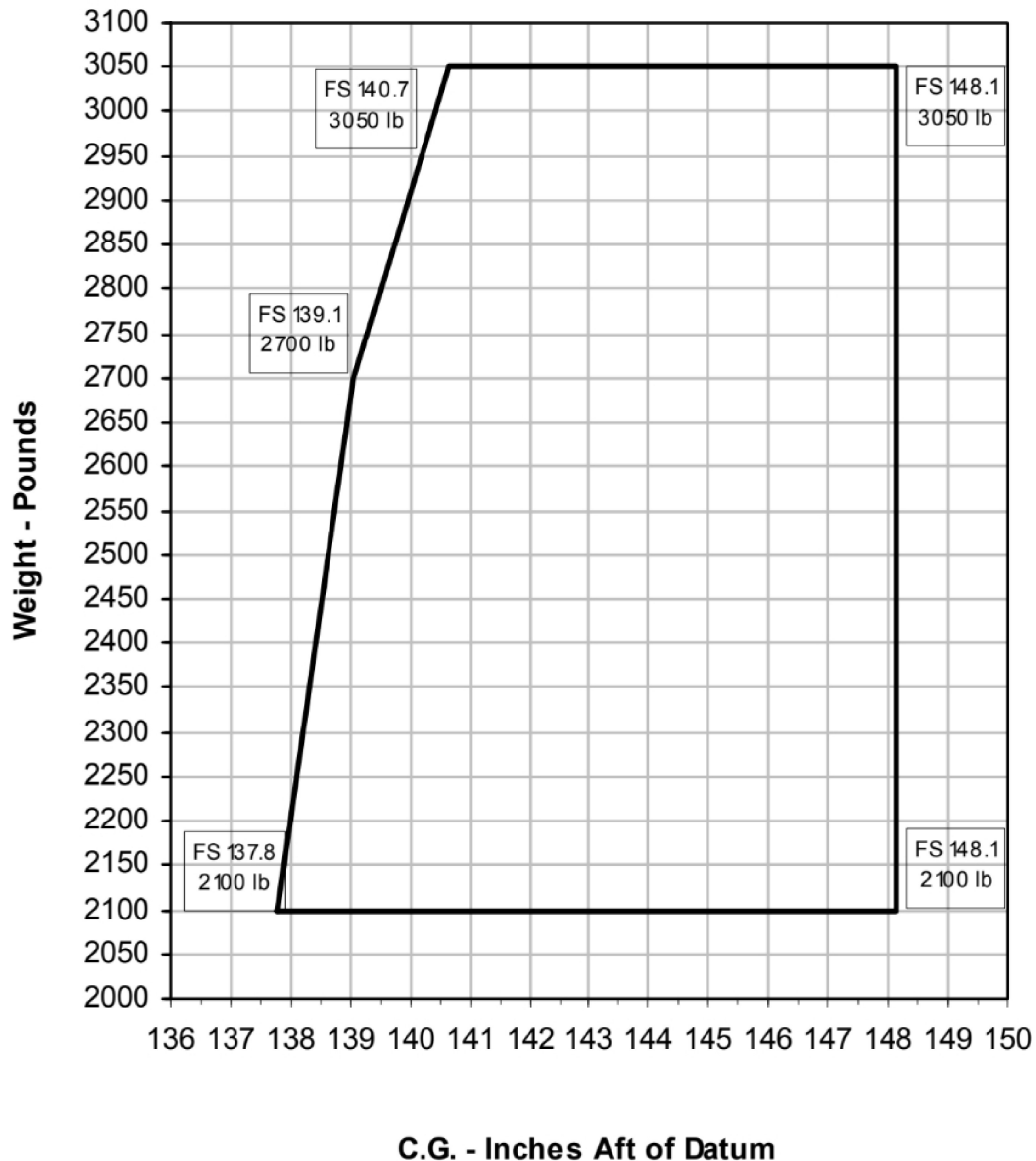


Figure 2-1
CG Envelope

N258JS WEIGHT AND BALANCE

N258JS	Weight Pounds (lb)	Arm Inches (in)	Moment lbin.
Empty Aircraft	2,228.37	140.83 (Empty CG)	313,810.41
Pilot and Passenger		143.5	
Rear Passenger		180	
Baggage Area 1		208	
Fuel Tanks		153.8	
Total Weight		Total Moment	

12/01/2023 Weight and Balance

* Front Seats can be adjusted to estimated arm.

Total Moment ÷ Total Weight = CG

CG =

Instructions:

1. Add the weights of all the things loaded into the aircraft to the empty weight of the aircraft. This gives you your total weight.
2. Calculate the moment of each item loaded into the aircraft. (Weight x Arm)
3. Add the moments together including the moment of the empty aircraft.
4. Divide the total moments by the total weights to calculate your Center of Gravity. (CG)

NOTE:

Fuel Weights 6 lbs/gallon

Max Takeoff Weight: 3050 lbs

Max Weight in Baggage Area: 130 lbs (59 kg)

This maximum gross weight of 3050 lbs must be never exceeded!