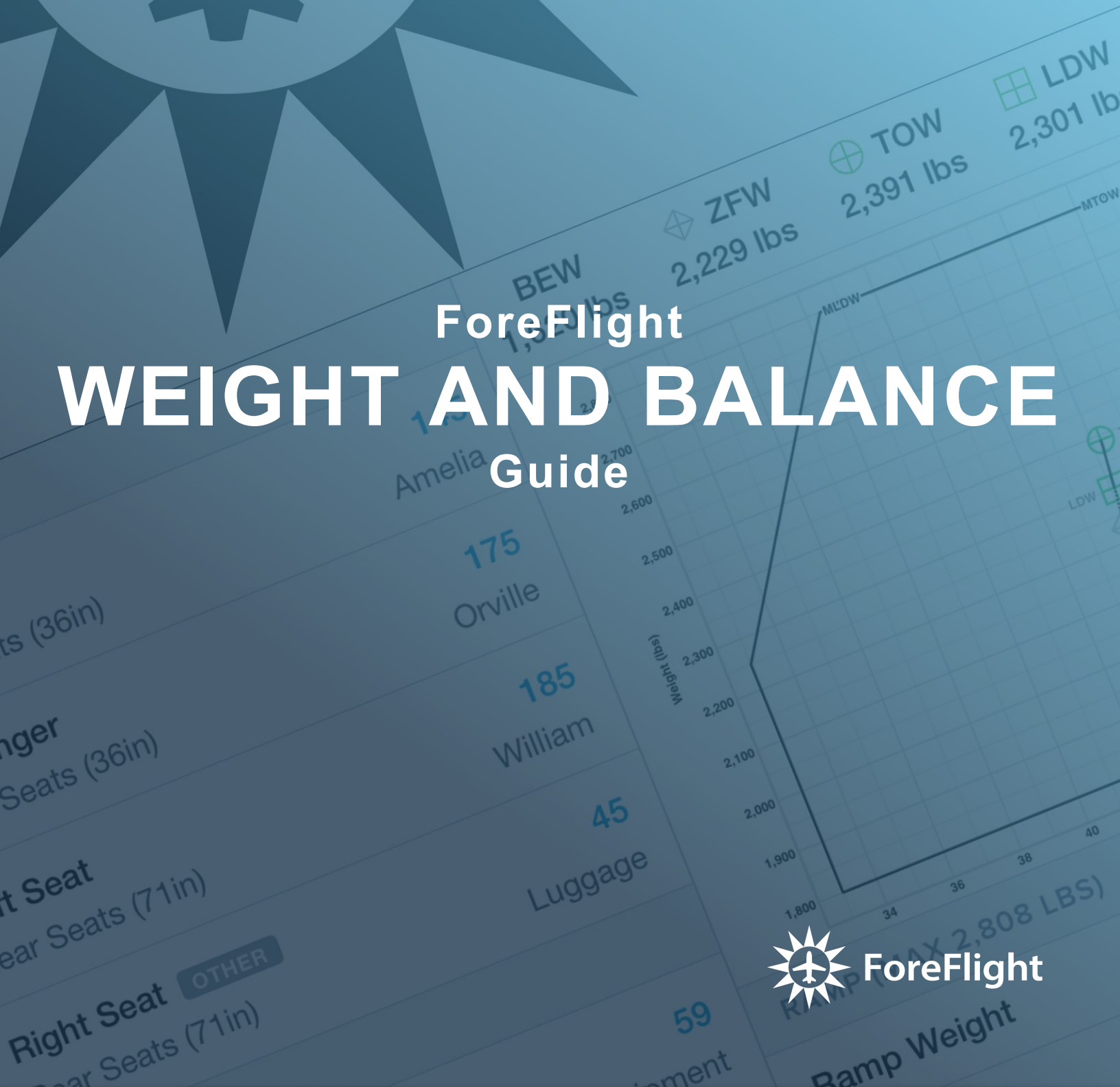




ForeFlight WEIGHT AND BALANCE Guide



ForeFlight

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INTRODUCTION

ForeFlight Mobile's Weight and Balance (W&B) tool delivers real-time calculations to help ensure aircraft are loaded within operational limits. By using accurate and current data, the tool enables efficient flight planning.

This guide provides an overview of ForeFlight Mobile's Weight and Balance tool, including the available versions, usage instructions, and key features. For a visual walkthrough, visit the [ForeFlight Weight and Balance webpage](#).

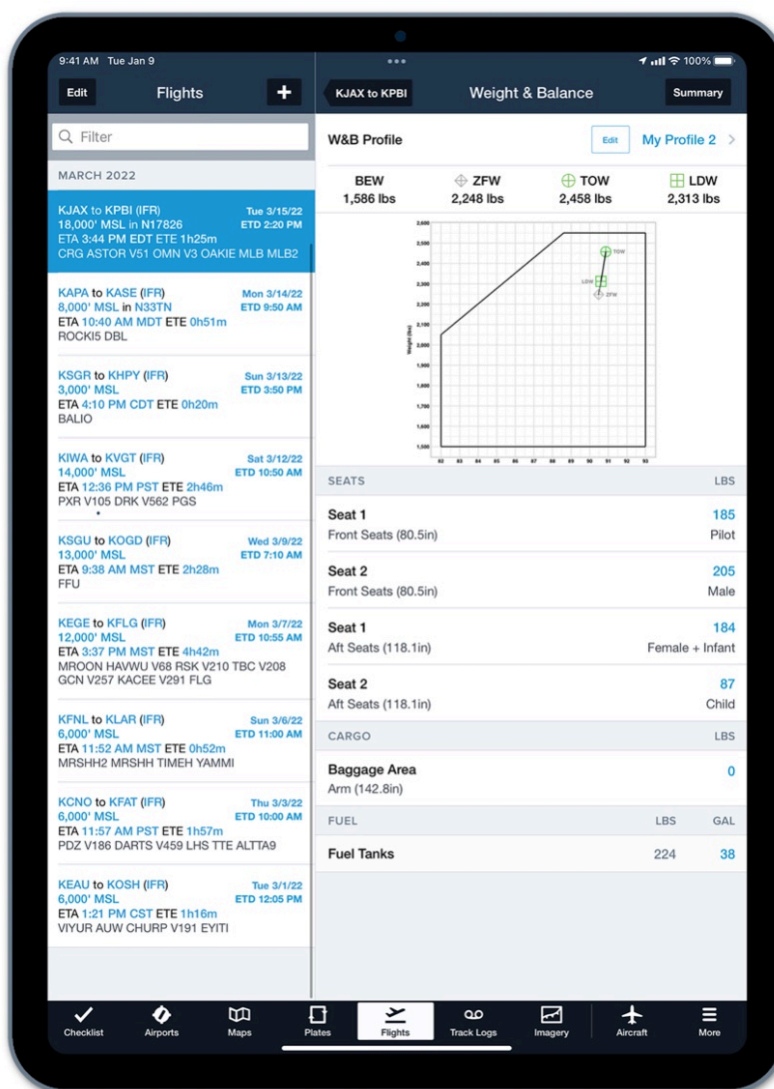


Figure 1-1. ForeFlight Mobile Integrated Weight and Balance

1.1 Weight and Balance Tools

ForeFlight Mobile includes multiple Weight and Balance tools tailored to user needs and subscription tiers.

1.1.1 Enhanced Weight and Balance

Enhanced Weight and Balance is the current standard for all ForeFlight Mobile customers. It is enabled by default for Business and Military accounts. Starter, Essential, and Premium customers can enable Enhanced Weight and Balance under

More → Accounts → ForeFlight Labs.

NOTE: Except where explicitly stated, all references to weight and balance in this guide refer to Enhanced Weight and Balance.

1.1.2 Legacy Weight and Balance

Legacy Weight and Balance is the original, standalone Weight and Balance tool and is not integrated with other ForeFlight Mobile features. This tool is being phased out in favor of Enhanced Weight and Balance.

To access Legacy Weight and Balance:

- **Starter, Essential, and Premium customers:** Disable Enhanced Weight and Balance under **More → Accounts → ForeFlight Labs.**
- **Business and Military customers:** Request access by emailing team@foreflight.com.

NOTE: Only one weight and balance tool can be active—either Legacy or Enhanced Weight and Balance.

1.1.3 Integrated Weight and Balance

Integrated Weight and Balance is available with Premium, Business Performance, MFB Performance, and MFB One subscriptions. Integrated Weight and Balance:

- Adds Enhanced Weight and Balance directly into the **Flights** view.
- Automatically copies payload and fuel data from the planned flight into the **Weight & Balance** view.

- Streamlines the planning process.
- Preserves weight and balance data with each flight.

1.1.4 Graphical Weight and Balance

[Graphical Weight and Balance](#), available with Premium, Business Performance, MFB Performance, and MFB One subscriptions, enhances usability through a dynamic visual interface. Users can manage aircraft loading by interacting with graphical station layouts.

1.2 Key Differences: Enhanced Verses Legacy

Enhanced Weight and Balance introduces several improvements over Legacy Weight and Balance:

- **Aircraft Association** - Enhanced Weight and Balance profiles are integrated into the aircraft profile and can be configured via the **Aircraft** view. Legacy Weight and Balance profiles are standalone.
- **Station Type Support** - Enhanced Weight and Balance supports station type designation, which restricts allowable load types per station.

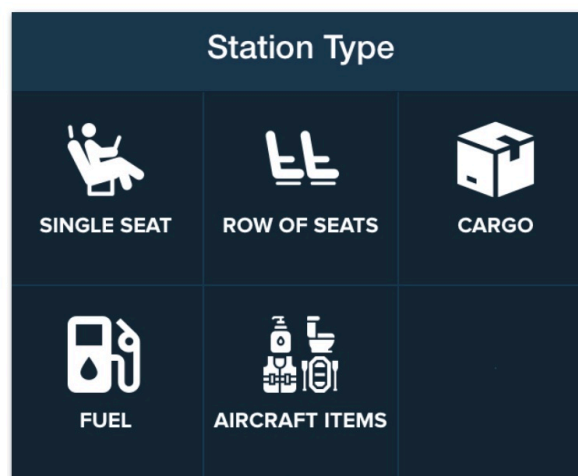


Figure 1-2. Enhanced Weight and Balance Station Types

- **Complex Configurations** - Enhanced Weight and Balance supports multiple fuel tanks, each with either a fixed or variable arm. Legacy Weight and Balance supports only one tank with a variable arm.
- **Flights Integration** - Enhanced Weight and Balance integrates with the **Flights** view for Premium, Business Performance, MFB Performance, and MFB One subscriptions. The integration reduces duplicate input of fuel and payload information and saves weight and balance data with the flight record.

1.3 Transitioning from Legacy to Enhanced

When updating ForeFlight Mobile, a prompt appears to enable Enhanced Weight and Balance. To defer, select **Not Right Now**.

Starter, Essential, and Premium customers can enable Enhanced Weight and Balance under **More → Accounts → ForeFlight Labs → Enhanced Weight & Balance**.

Business and Military users cannot disable Enhanced Weight and Balance.

Weight and balance profiles created in the Legacy format can be converted to Enhanced format using **Migration Assistant**. If Enhanced Weight and Balance is disabled after being enabled, converted, or newly created, Enhanced profiles remain saved for future use.

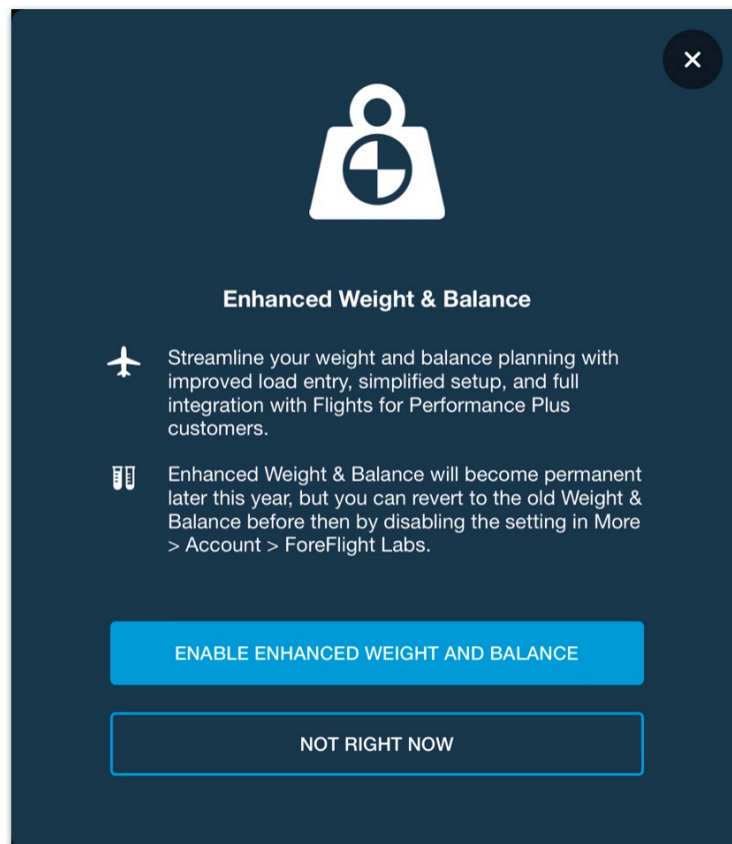


Figure 1-3. Enhanced Weight & Balance Pop-up

Business and Military users cannot disable Enhanced Weight and Balance.

Weight and balance profiles created in the Legacy format can be converted to Enhanced format using [Migration Assistant](#). If Enhanced Weight and Balance is disabled after being enabled, converted, or newly created, Enhanced profiles remain saved for future use.

WEIGHT AND BALANCE PROFILES

Weight and balance profiles are part of an aircraft profile and can be added through the **Aircraft**, **Weight & Balance**, or **Flights** views. Once created in any view, the profile is available across all other views.

Multiple weight and balance profiles may be configured for a single aircraft. Separate profiles should be used for different configurations or center of gravity (CG) envelopes (e.g., normal and utility).

2.1 Process to Complete a Profile

The process to complete a profile follows these steps:

- 1 Gather [required information](#): station details, basic empty weight, and forward and aft CG limits.
- 2 [Create an aircraft profile](#) (if not already created).
- 3 [Add a Weight and Balance profile](#) to the aircraft profile.
- 4 [Select a template](#).
- 5 Complete [all sections of the selected template](#).
 - If using a [prebuilt template](#):
 - Input basic empty CG and weight
 - Verify prepopulated station and CG limit data
 - If using a [blank template](#):
 - Manually complete all sections
 - If using a legacy template:
 - Convert with [Migration Assistant](#).

4-Seat Arrangement	
Profile Name	4-Seat Arrangement
Basic Empty CG	133.2 in
Basic Empty Weight	2756 lbs
STATIONS	
Front Seats 2 Seats	80.5 in >
Rear Seats 2 Seats	118.1 in >
Tail Compartment Limit 200 lbs	142.8 in >
Main Tanks Limit 648 lbs	95 in >
Add Station	
FORWARD CG LIMITS	
89 in	3,800 lbs
85 in	3,400 lbs
84 in	2,800 lbs
84 in	2,300 lbs
Add Forward Limit	
AFT CG LIMITS	
93 in	2,300 lbs
93 in	3,800 lbs
Add Aft Limit	

Figure 2-1. Complete Weight and Balance Profile Aircraft View

2.2 Required Information for Weight and Balance Profiles

Information required to create a weight and balance profile is typically found in the Limitations or Weight and Balance sections of the aircraft flight manual and may be presented textually or graphically. Gather the following before creating a new profile:

- Basic Empty Weight and CG from the latest weighing
- Weight limits (e.g., baggage compartment limit)
- Forward and Aft CG Limits (often shown as a two-dimensional envelope)
- Station arms and weight limits.

The following image depicts a graphical station diagram and how that information is transferred to the weight and balance template.

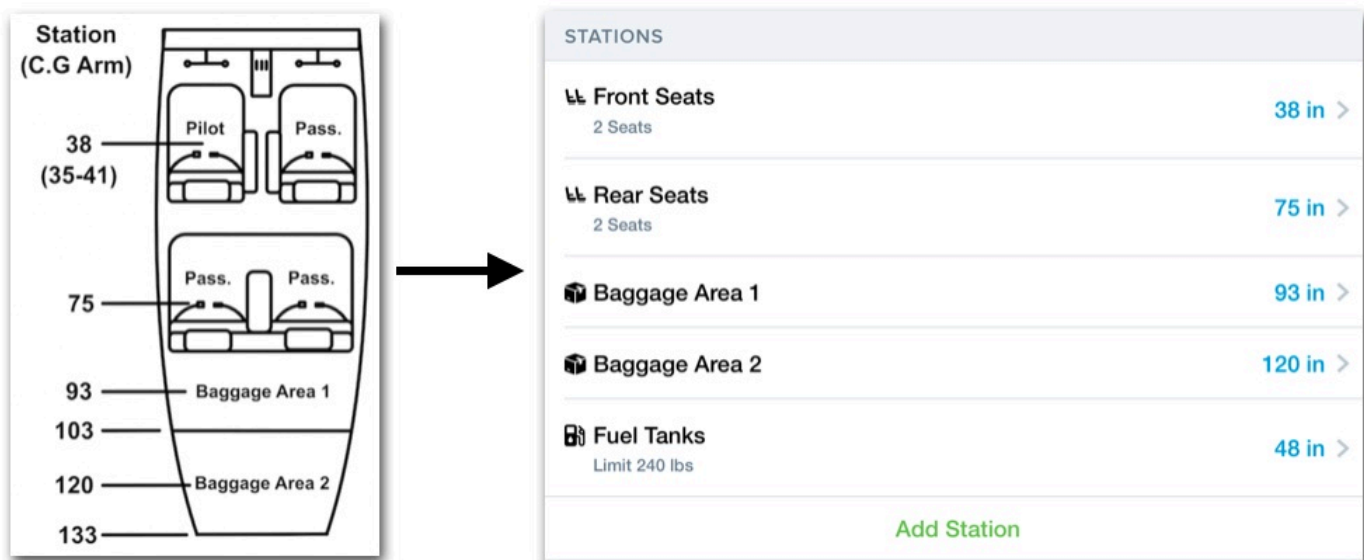


Figure 2-2. Transfer from a Graphical Station Diagram into Template

2.3 Creating an Aircraft Profile

A weight and balance profile requires an existing aircraft profile. To create one:

- 1 Select **More** → **Aircraft**.
- 2 Tap the add aircraft **[+]** button in the upper toolbar.
- 3 In the General section, enter the Tail Number and Type.
- 4 Verify and edit auto-populated data as needed.

NOTE: When selecting an aircraft type, a "W&B Template Available" notation is displayed when at least one [Prebuilt Template](#) exists for the aircraft type.

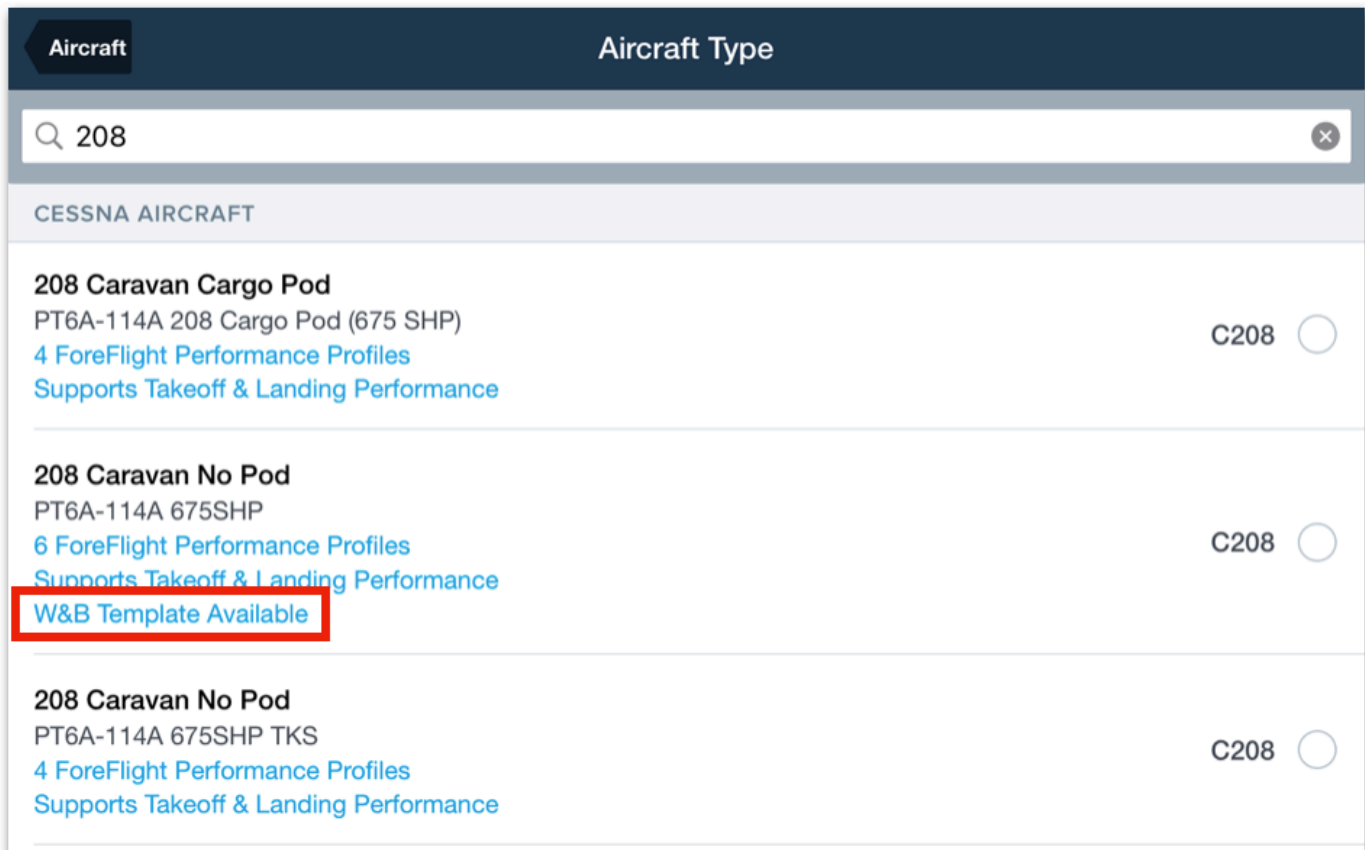


Figure 2-3. Selecting an Aircraft Type

2.3.1 Weights Section of Aircraft Profile

The Weights section of an aircraft profile contains manufacturer data integrated into the weight and balance profile. This data must be verified for accuracy based on the selected aircraft type, variant, and applicable certifications.

WEIGHTS	
Weight Units	Pounds
Basic Empty Weight	1,500
Max Zero Fuel Weight	2,450
Max Ramp Weight	2,455
Max Takeoff Weight	2,450
Max Landing Weight	2,450

Figure 2-4. Aircraft Weights Section

2.3.1.1 Weight Fields

Fields in the Weight section are:

Weight Units

Select either pounds or kilograms.

Basic Empty Weight (BEW)

Auto-populated with a value that should be updated based on the most recent aircraft weighing. BEW includes the weight of the airframe, engine(s), unusable fuel, undrainable oil, and standard and optional equipment.

Max Zero Fuel Weight (MZFW)

Auto-populated with the maximum allowable weight of the aircraft loaded with passengers or cargo but without usable fuel. If the aircraft has no MZFW defined, set equal to the Max Takeoff Weight.

Max Ramp Weight (MRW)

The highest allowable aircraft weight, including all fuel. MRW typically exceeds the Max Takeoff Weight.

Max Takeoff Weight (MTOW)

The maximum allowable weight for takeoff.

Max Landing Weight (MLDW)

The maximum allowable weight at landing.

2.4 Adding a Weight and Balance Profile

Weight and balance profiles can be added through the **Aircraft**, **Weight & Balance**, or **Flights** views. Profiles added with one view are accessible from the others.

2.4.1 Adding Profiles from the Aircraft View

To add a weight and balance profile from the **Aircraft** view:

- 1 Tap **More → Aircraft**.
- 2 Select an existing aircraft profile.
- 3 Scroll to the Weight & Balance section.
- 4 Tap **Add W&B Profile**.
- 5 [Select a template](#).

2.4.2 Adding Profiles from the Weight and Balance View

To add a weight and balance profile from the Weight and Balance view:

- 1 Tap **More → Weight & Balance**.
- 2 Tap the profile menu in the upper toolbar (see the following image).
- 3 Tap the Add Profile **[+]** button in the pop-up.
- 4 Select an aircraft.
- 5 [Select a template](#).

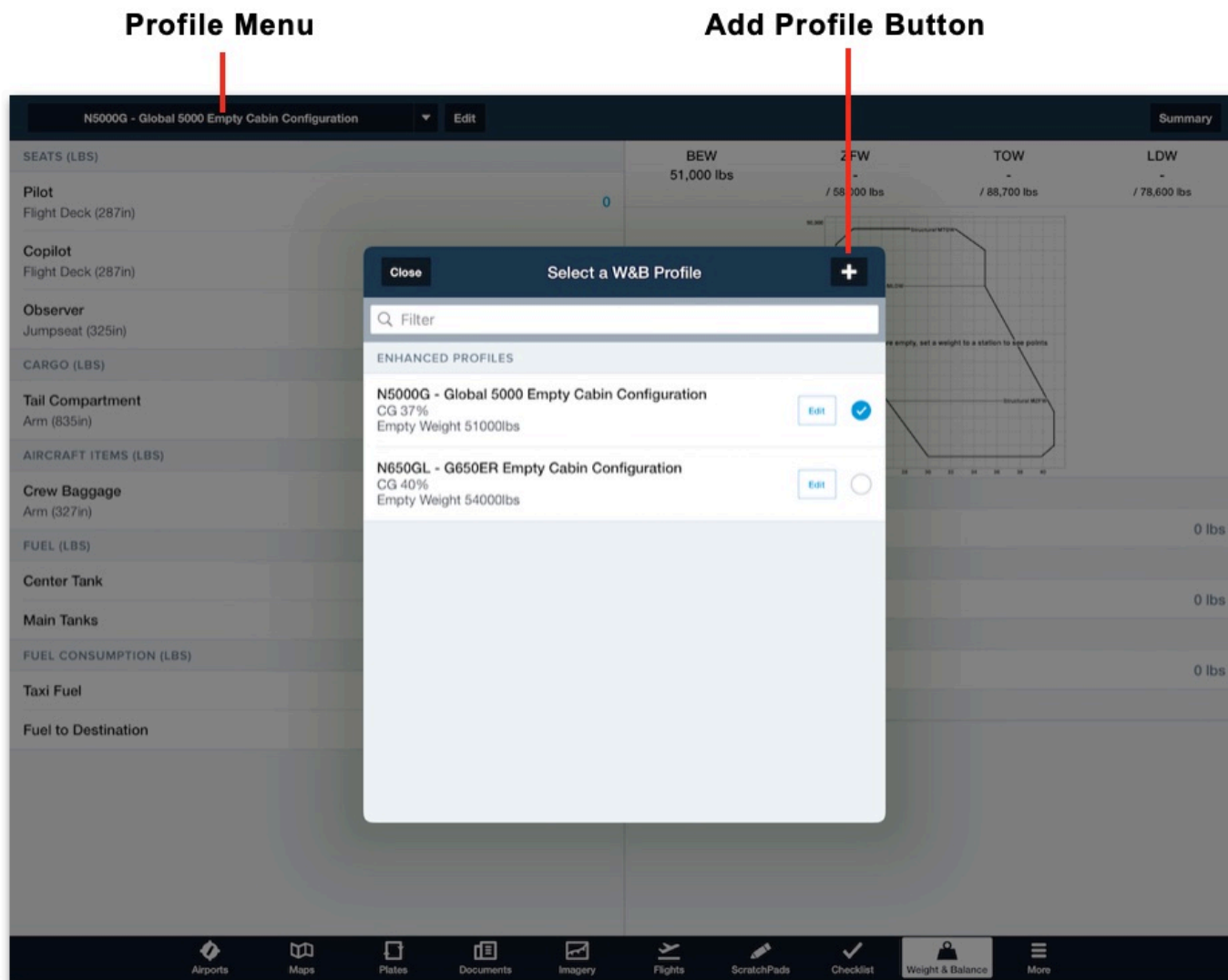


Figure 2-5. Adding profiles with the Weight & Balance view

2.4.3 Adding Profiles from the Flights View

To add a weight and balance profile from the **Flights** view (Premium, Business Performance, MFB Performance, and MFB One subscriptions):

- 1 Tap **More** → **Flights**.
- 2 Select a flight.
- 3 Scroll to the Payload section.
- 4 Tap **Weight and Balance**.

2. WEIGHT AND BALANCE PROFILES

5 Do one of the following:

- If no profile exists, tap the **Add Profile [+]** button in the pop-up.
- If a profile already exists, tap the selected weight and balance profile at the top of the view, then tap the **Add Profile [+]** button.

6 Select a template.

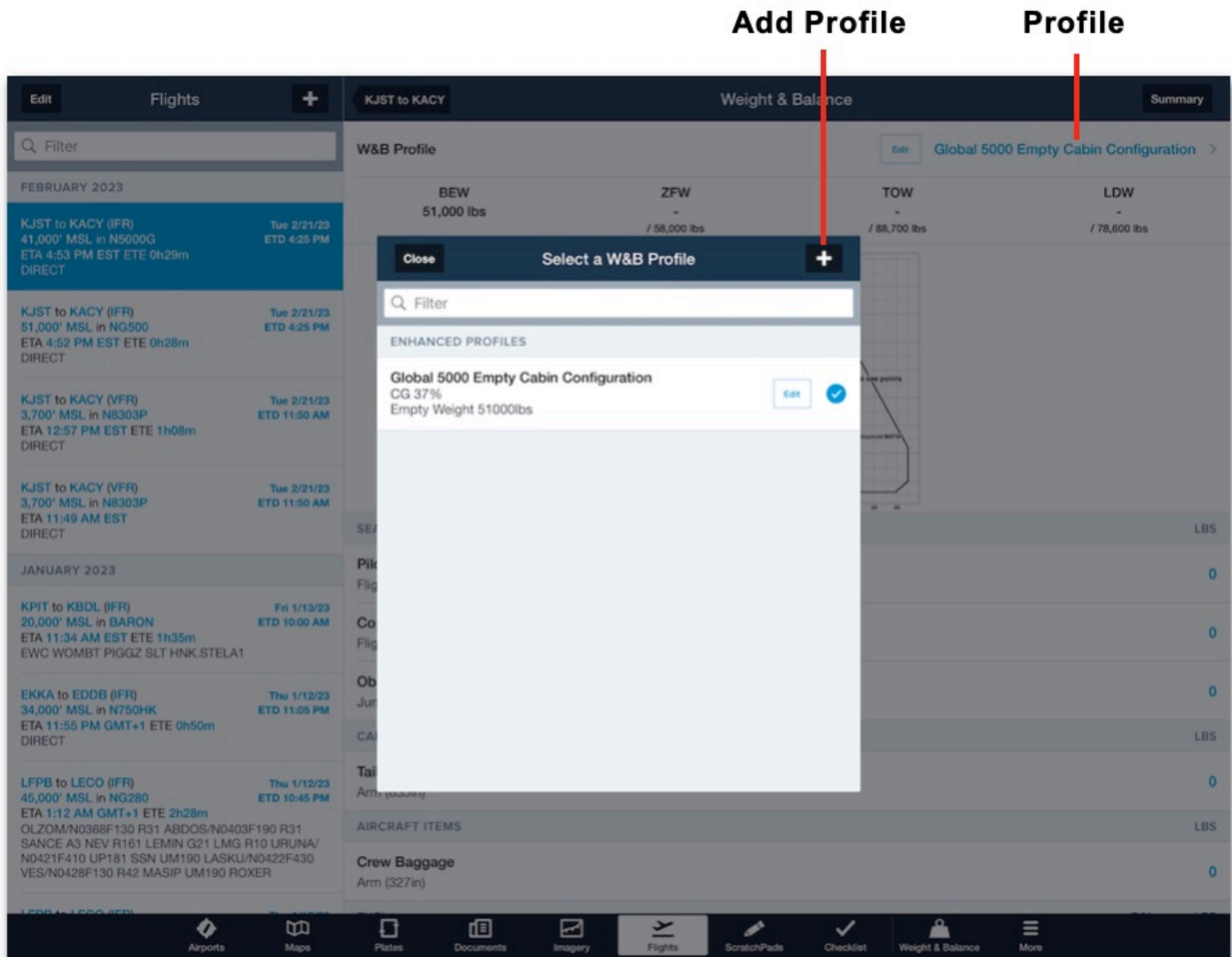


Figure 2-6. Adding Profiles from the Flights View

NOTE: Adding profiles from Flights is not available on multi-pilot accounts.

2.5 Template Types

Templates are used to complete a weight and balance profile. Three template types are available for completing weight and balance profiles:

- **Prebuilt templates:** Pre-populated with manufacturer data. Only basic empty CG and weight are needed. See [Prebuilt Templates](#) for additional information.
- **Blank templates:** Fully manual entry of all data.
- **Legacy templates:** Created using [Legacy Weight and Balance](#). Convert with [Migration Assistant](#).

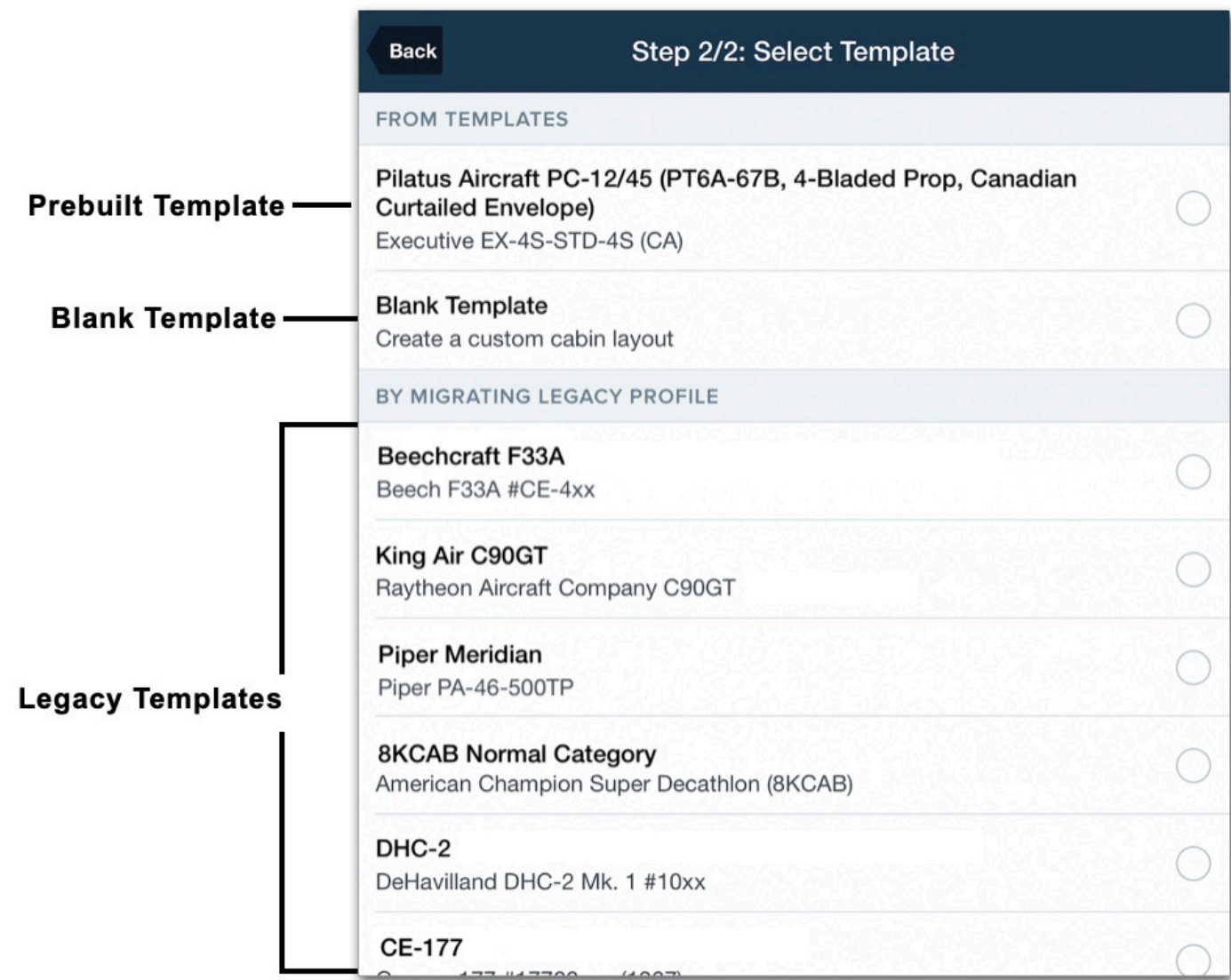


Figure 2-7. Templates Types

2.5.1 Prebuilt Templates

Prebuilt templates are available for hundreds of aircraft types. These templates include manufacturer-supplied center of gravity (CG) limits as well as stations, such as seats, fuel, and cargo.

When [adding a new weight and balance profile](#), available prebuilt templates appear above the Blank Template option. If no templates are listed above the blank template, a prebuilt template is not available for the selected aircraft type.

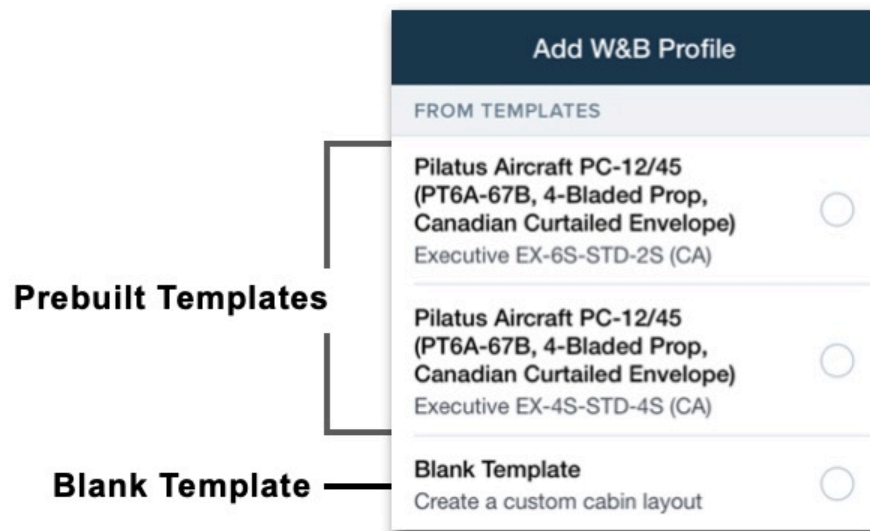


Figure 2-8. Prebuilt Templates

2.5.1.1 Completing a Prebuilt Template

To complete a Prebuilt template:

- 1 Enter the Basic Empty CG.
- 2 Enter the Basic Empty Weight.
- 3 Review stations for accuracy.
- 4 Review CG limits for accuracy.

N8303P		4 Seat Arrangement			
Profile Name		4 Seat Arrangement			
Basic Empty CG		Required			
Basic Empty Weight		USE 2756		Required	

Figure 2-9. Prebuilt Template - General Section

IMPORTANT: The **Use [basic empty weight]** button is for reference only. Enter the aircraft's actual basic empty weight in this field.

2.5.2 Blank Templates

A Blank template can be used to set up any aircraft. Blank templates do not include pre-populated data.

The screenshot shows the 'My Profile' screen in the ForeFlight app. At the top, there's a dark blue header with 'PC12' on the left, 'My Profile' in the center, and a share icon on the right. Below the header, the 'Profile Name' field is empty, with a 'My Profile' link on the right. The 'Basic Empty CG' field is empty, with a 'Required' label on the right. The 'Basic Empty Weight' field is empty, with a 'USE 5953' button and a 'Required' label on the right. Below these fields is a section titled 'STATIONS' with a light gray background. Under 'STATIONS', there are three items: 'Cockpit' (2 Seats) with '0 in >' on the right, 'Cargo Station 1' with '0 in >' on the right, and 'Fuel Tanks' with '0 in >' on the right. Below these items is a green 'Add Station' button. Below the 'STATIONS' section is a section titled 'FORWARD CG LIMITS' with a light gray background. Under 'FORWARD CG LIMITS', there is one item with '0 in' on the left and '0 lbs' on the right. Below this item is a green 'Add Forward Limit' button. Below the 'FORWARD CG LIMITS' section is a section titled 'AFT CG LIMITS' with a light gray background. Under 'AFT CG LIMITS', there is one item with '0 in' on the left and '0 lbs' on the right. Below this item is a green 'Add Aft Limit' button.

Figure 2-10. Blank Template

2.5.2.1 Completing Blank Templates

To complete a Blank template:

- Enter the Basic Empty CG.
- Enter the Basic Empty Weight.

Configure the stations to match the aircraft configuration. Each blank template starts with:

- One cockpit seating row
- One cargo station
- One fuel tank.

Tap **Add Station** to include additional seats, cargo compartments, fuel tanks, or other aircraft items.

Blank templates also start with:

- One forward CG limit
- One aft CG limit.

A minimum of two forward CG limits and two aft CG limits is required to define the aircraft's CG envelope. Tap **Add Forward Limit** or **Add Aft Limit** to enter additional CG limit data points.

Refer to the [Weight and Balance Template](#) section for additional information.

IMPORTANT: The **Use [basic empty weight]** button is for reference only. Enter the aircraft's actual basic empty weight in this field.

2.5.3 Completing Legacy Templates

Legacy templates refer to weight and balance profiles created using the [Legacy Weight and Balance](#) system. These profiles can be converted to the current template format using the [Migration Assistant](#).

When completing the migration process, verify the following:

- Basic Empty Weight
- Basic Empty CG
- Station locations
- CG limits.

Back

Migration Assistant
Step 3 of 4: Verify Station Arms

Confirm Stations

Please verify the information for each station is correct, including its type and its arm.

Edit

 Cockpit	40 in >
 Manuals	60 in >
 Forward Cabinet	68 in >
 Galley Provisions	85 in >
 Front Passengers Seats 1 and 2	115 in >
 Middle Passenger Seats 3 and 4	166 in >
 Aft Passenger Seats 5 and 6	215 in >
 Aft Closet	247 in >

NEXT: Verify Number of Seats

Figure 2-11. Migration Assistant

2.6 Weight and Balance Template Design

The weight and balance template consists of four primary sections. After all sections are completed, the profile can be used to calculate weight and balance.

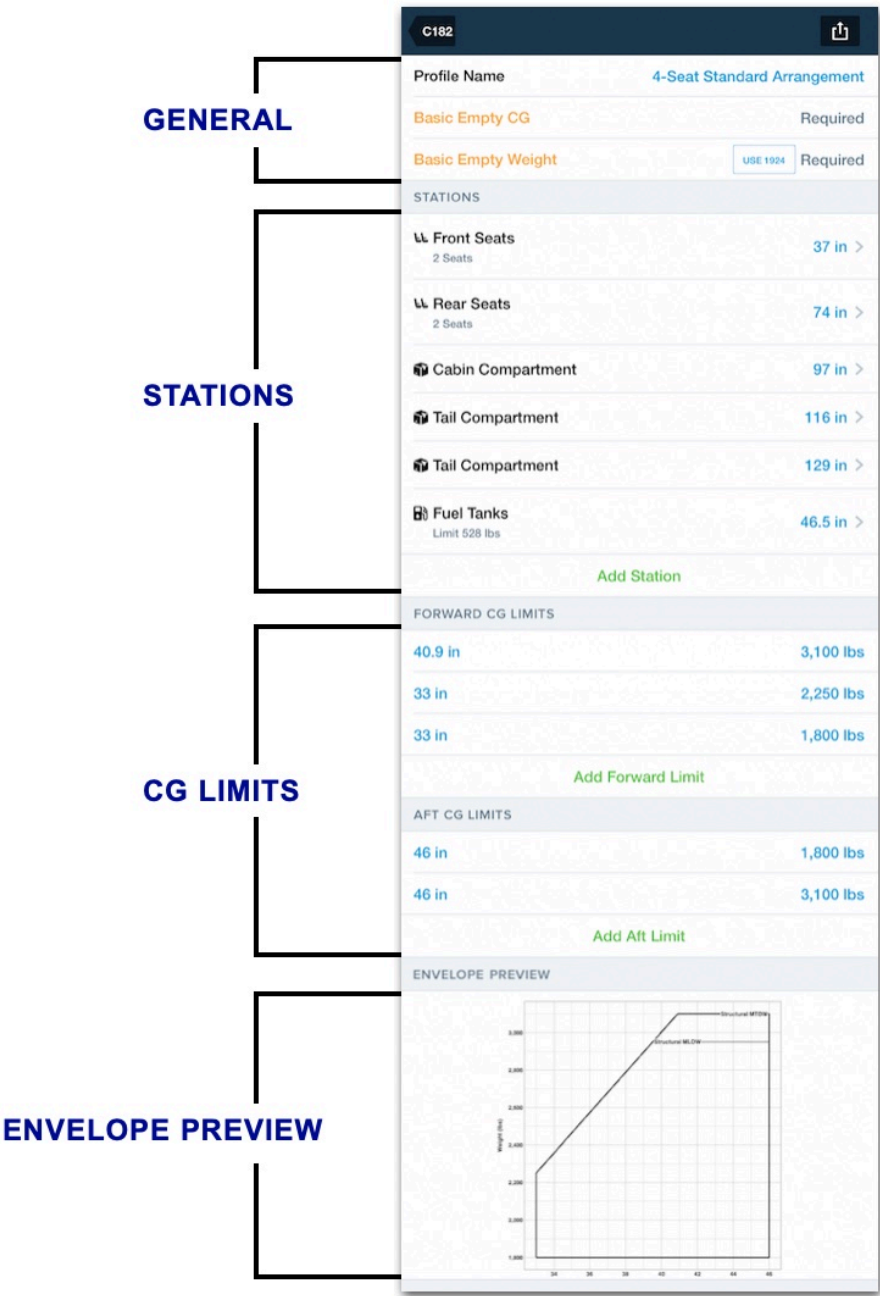


Figure 2-12. Weight and Balance Template

2.6.1 General Section

The General section includes aircraft-identifying and aircraft-specific data: the profile name, basic empty center of gravity (CG), and basic empty weight (BEW).

Profile Name	My Profile
Basic Empty CG	Required
Basic Empty Weight	Required

Figure 2-13. General Section Fields

2.6.1.1 Profile Name

The Profile Name is used to describe and distinguish the weight and balance profile. It supports alphanumeric and special characters. Example names include:

Example profile names:

- Standard Configuration
- 4 Passenger with Aft Seats Removed
- N12345 - Normal
- N12345 - Aerobatic
- N12345 - Utility

2.6.1.2 Basic Empty CG

The Basic Empty CG field is used to enter the most recent basic empty CG measurement. Units such as inches, feet, meters, millimeters, or centimeters are displayed next to the field.

To change the unit of measure:

- 1 Go to the main **Aircraft** view and tap on the desired aircraft.
- 2 In the **General** section, select **Length Units**.
- 3 Choose the appropriate unit.

If a CG is entered and the unit of measure is later changed, the Basic Empty CG will be automatically converted to the new unit.

2.6.1.3 Basic Empty Lateral CG (Helicopter Only)

The Basic Empty Lateral CG field is used to enter the most recent basic empty lateral CG measurement. Units such as inches, feet, meters, millimeters, or centimeters are displayed next to the field.

Profile Name	Test
Basic Empty Longitudinal CG	Required
Basic Empty Lateral CG	Required
Basic Empty Weight	USE 4409 Required

← Helicopter Only

Figure 2-14. General Section Helicopter Fields

To change the unit of measure:

- 1 Go to the main **Aircraft** view and tap on the desired aircraft.
- 2 In the General section, select **Length Units**.
- 3 Choose the appropriate unit.

If a CG is entered and the unit of measure is later changed, the Basic Empty Lateral CG will be automatically converted to the new unit.

2.6.1.4 Basic Empty Weight

The Basic Empty Weight field is used to enter the BEW from the most recent aircraft weighing. Supported units are pounds (lbs) and kilograms (kg).

To change the unit of weight:

- 1 Go to the main **Aircraft** view and tap on the desired aircraft.
- 2 Select **Weight Units**.
- 3 Choose the appropriate unit.

2.6.2 Stations Section

The Stations section is used to define all items along the aircraft's longitudinal axis that vary in weight per flight, such as seating, cargo, and fuel.

STATIONS	
 Front Seats 2 Seats	37 in >
 Rear Seats 2 Seats	74 in >
 Cabin Compartment	97 in >
 Tail Compartment	116 in >
 Tail Compartment	129 in >
 Fuel Tanks Limit 528 lbs	46.5 in >
Add Station	

Figure 2-15. Station Section

2.6.2.1 Using Prebuilt Templates

Stations are auto-filled with type, description, arm, and weight limits. These should be verified and updated if inconsistent with the aircraft flight manual.

2.6.2.2 Using Blank Templates

Defaults include cockpit seats, one cargo station, and one fuel tank. Tap Add Station to insert additional components as needed.

Refer to [Station Types](#) for further details.

2.6.3 CG Limits Section

CG limits ensure the aircraft operates within certified parameters. Forward and aft CG limits are typically found in the Weight and Balance or Limitations section of the aircraft flight manual.

FORWARD CG LIMITS	
40.9 in	3,100 lbs
33 in	2,250 lbs
33 in	1,800 lbs
Add Forward Limit	
AFT CG LIMITS	
46 in	1,800 lbs
46 in	3,100 lbs
Add Aft Limit	

Figure 2-16. CG Limits Section

2.6.3.1 Basic CG Envelopes

To define a CG envelope, four total CG limit points are required: two forward and two aft at maximum and minimum weight. Tap **Add Forward Limit** and **Add Aft Limit** until the required points are entered. While the row order does not affect functionality, organizing by weight (maximum to minimum) improves visualization.

Aircraft without a graphical CG envelope may only provide a single forward and aft CG limit. In such cases, enter the CG values at both maximum and minimum weight. If a minimum weight is not defined, use the basic empty weight (BEW).

2.6.3.2 Example Basic CG Envelope

The example below demonstrates a typical configuration for an aircraft that defines only one forward and one aft CG limit and its corresponding display in the app:

- Forward CG Limit: 78.3 in
- Aft CG Limit: 108.5 in
- Max Gross Weight: 3,200 lbs
- Basic Empty Weight 1,785.2 lbs.

FORWARD CG LIMITS	
78.3 in	3,200 lbs
78.3 in	1,800 lbs
Add Forward Limit	
AFT CG LIMITS	
108.5 in	3,200 lbs
108.5 in	1,800 lbs
Add Aft Limit	

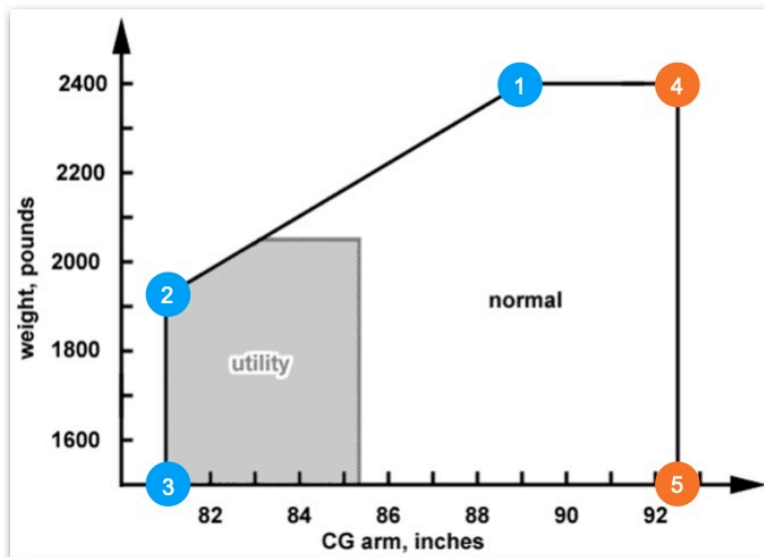
Figure 2-17. Example Basic CG Envelope

2.6.3.3 Complex CG Envelopes

Complex CG envelopes are graphically depicted in many aircraft flight manuals, where CG limits vary depending on weight. Each bend in the envelope (shown with the colored numbers in the image below) defines a new point and must be entered into the CG limits section.

To input a complex CG envelope, enter the weight and corresponding arm at each bend. Forward CG limits are generally on the left side of the graph, while aft CG limits appear on the right.

Use **Add Forward Limit** and **Add Aft Limit** as needed to match the envelope depicted in the flight manual.



1 Max Gross Weight - FWD limit

2 Limit changes with weight (bend)

3 Min Gross Weight - FWD limit

FORWARD CG LIMITS

89 in 2,400 lbs

81 in 1,920 lbs

81 in 1,500 lbs

Add Forward Limit

AFT CG LIMITS

4 Max Gross Weight - AFT limit

5 Min Gross Weight - AFT limit

92.5 in 2,400 lbs

92.5 in 1,500 lbs

Add Aft Limit

2.6.3.4 Converting Weight and Moment

Some CG envelopes define limits using Weight and Moment rather than Weight and Arm. To input these into ForeFlight, convert moment values to arm using the formula:

$$\text{Arm} = \text{Moment} / \text{Weight}$$

Follow the steps below to complete the conversion:

- 1 Identify the moment value (e.g., 88.2 pound-inches) and the corresponding weight (e.g., 2,300 pounds).

- 2 If the moment is divided by 1,000 (e.g., labeled as MOMENT/1000), multiply the listed value by 1,000 ($88.2 \times 1000 = 88,200$ pound-inches).
- 3 Divide the full moment by the corresponding weight to get the arm ($88,200 \div 2,300 = 38.35$ inches).
- 4 Repeat for each CG limit point in the envelope.

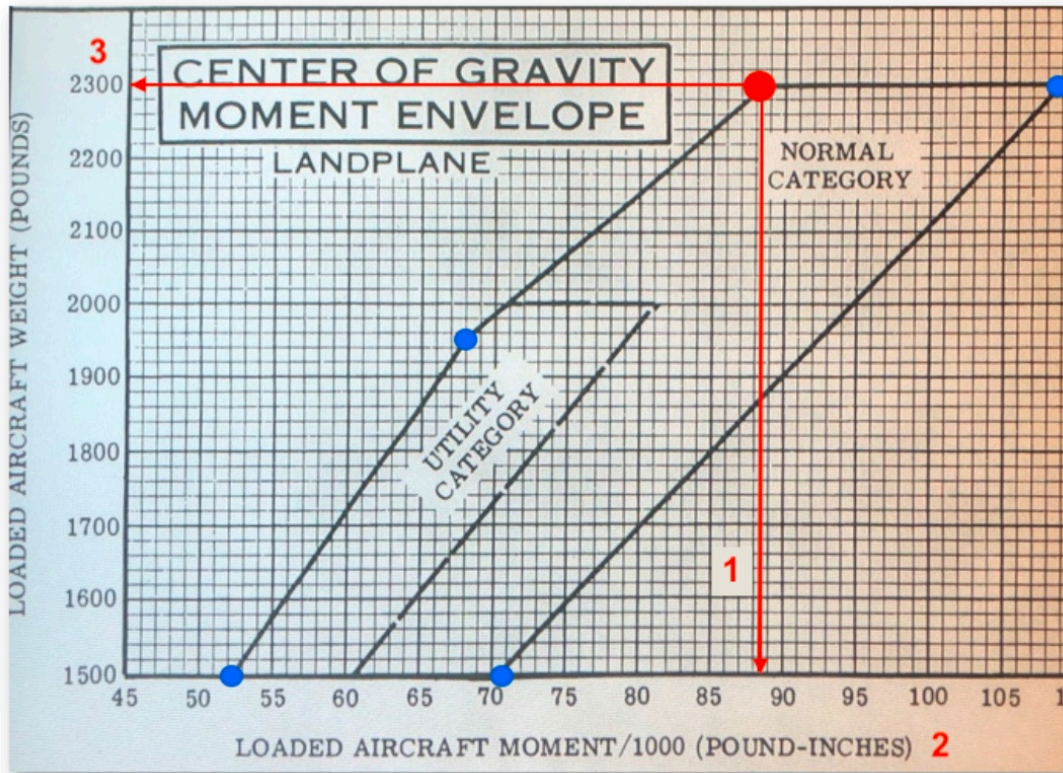


Figure 2-18. Center of Gravity Moment Envelope

2.6.4 Curtailment Options

The Curtailment Options section allows ForeFlight Military Flight Bag and multi-pilot business account holders to set default states for the [Curtailment Tools](#) in a weight and balance profile. These defaults apply whenever the profile is selected for a flight. Refer to the [Curtailment Tools](#) section for further details.

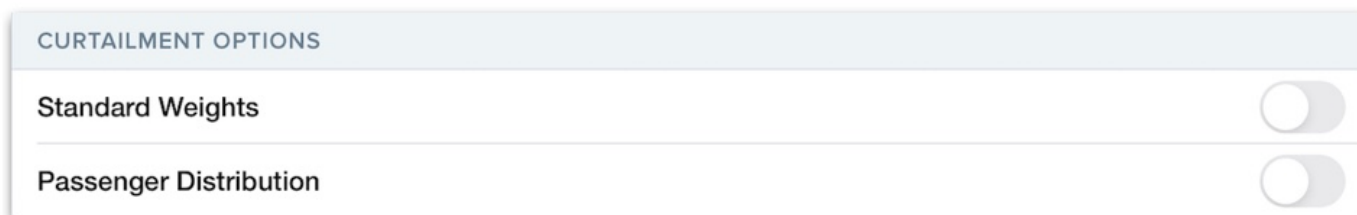


Figure 2-19. Curtailment Options

NOTE: Disabling Curtailment Tools in the weight and balance profile does not restrict their availability during flight planning. Pilots can manually enable or disable these tools after selecting the profile.

2.6.4.1 Standard Weights

Enabling Standard Weights is helpful when passenger seating locations are known, but individual weights are not. If enabled in the profile template, it will be toggled on by default in flights using this profile.

2.6.4.2 Passenger Distribution

Enabling Passenger Distribution is useful when passenger seating locations are unknown. If enabled in the profile template, the setting defaults to on when the profile is selected for a flight.

2.6.5 Envelope Preview

The Envelope Preview graphically displays the CG limits and basic empty weight (BEW) entered by the user. This preview should closely resemble the Arm-Weight CG envelope graph provided in the aircraft flight manual, if available.

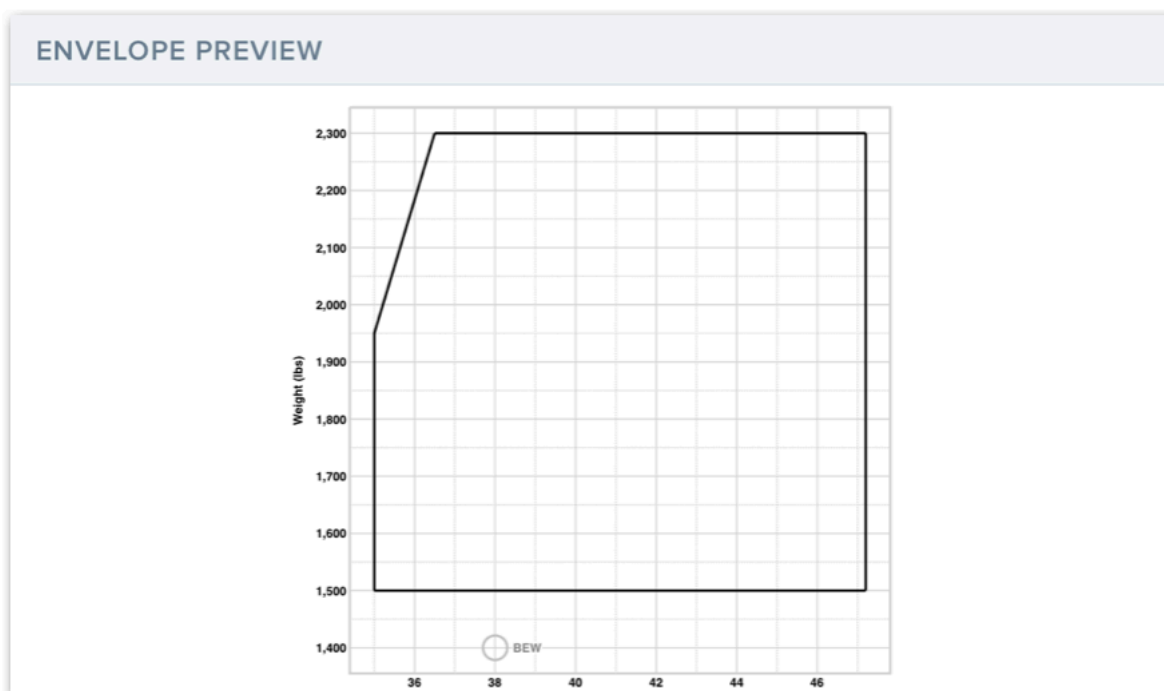


Figure 2-20. Envelope Preview

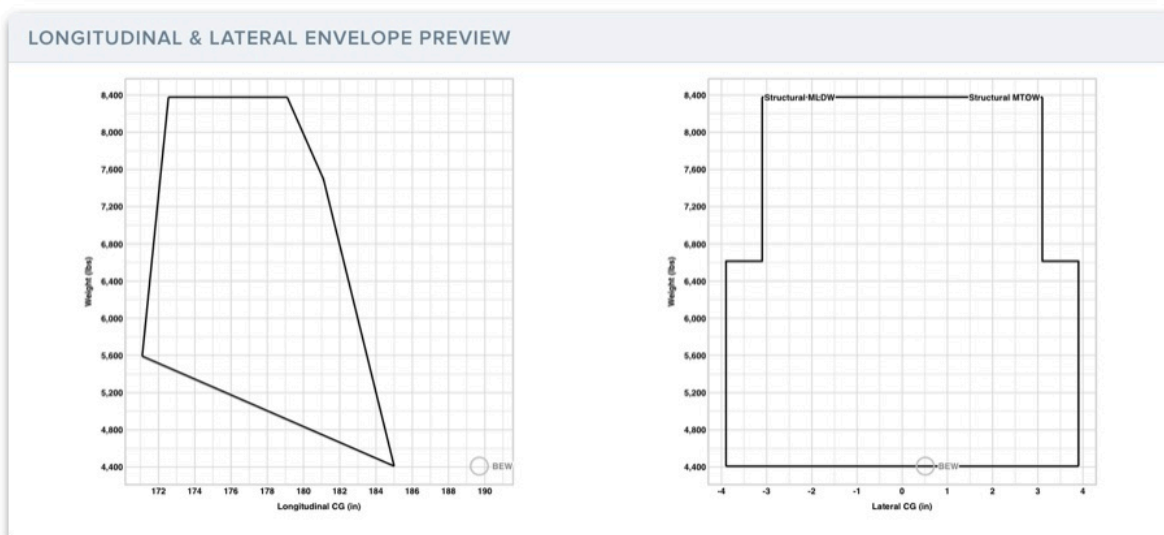


Figure 2-21. Helicopter Longitudinal and Lateral Preview

2.6.6 Use %MAC

The Use %MAC option enables the ability to configure a weight and balance profile using percent mean aerodynamic chord (MAC).

When %MAC is enabled:

- Fields for Leading Edge Mean Aerodynamic Chord (LEMAC) and MAC become available
- CG limit values are automatically converted from station arm (inches) to percent MAC

This option supports aircraft that define CG limits using aerodynamic chord percentages rather than station arms.

Use %MAC	☒
LEMAC	38 in
MAC	42 in

Figure 2-22. Use %MAC

2.6.7 Gear Retraction Moment Change

Aircraft with retractable landing gear may include data on how gear movement impacts aircraft CG. If this information is available, enter the Gear Retraction Moment Change in the weight and balance profile.

Use %MAC	☐
Gear Retraction Moment Change	-8,307 in-lbs

Figure 2-23. Gear Retraction Setting

The gear retraction moment reflects the CG shift caused by gear retraction or extension. In [weight and balance calculations](#), the CG shift is shown as a short horizontal line adjacent to the takeoff and landing weight.

For example, aircraft with forward-swinging gear may show a forward CG shift upon gear retraction. This shift should be accounted for when creating or editing the weight and balance profile.

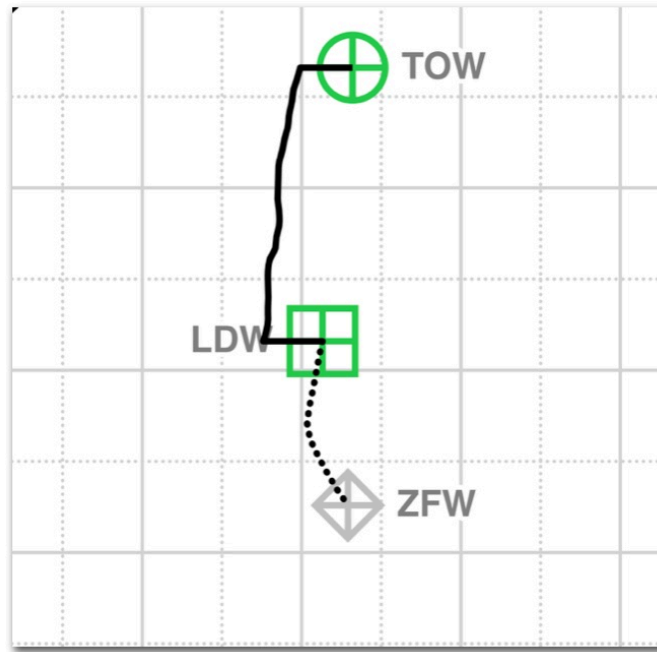


Figure 2-24. Shift in CG due to gear movement

2.7 Types of Weight and Balance Stations

Each station added to a weight and balance profile must include a designated station type. The station type defines the permissible load types during weight and balance calculations.

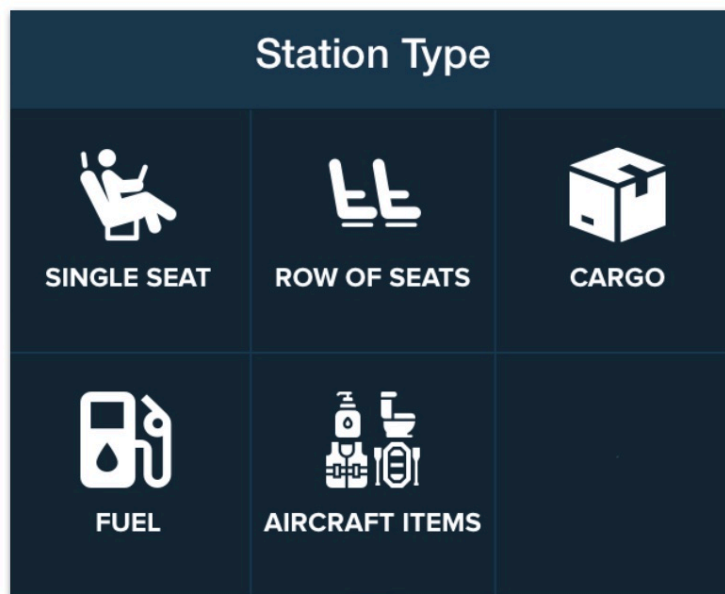


Figure 2-25. Station Types

2.7.1 Single Seat Station

Use **Single Seat** for individual passenger or crew seats. For each seat, complete the following fields:

Name

Enter a descriptive name for the item.

Arm

Specify the arm length.

Include in BOW

Enable this option if (1) the item remains on the aircraft at all times and is (2) not already included in the basic operating weight (BOW)

Weight

Enter the item's weight (if **Include in BOW** is enabled).

Weight Limits

Specify weight limits, if applicable.

Notes

See [Station Notes](#).

NOTE: If **Include in BOW** is enabled, The item becomes inactive during flight planning and the weight is added to the aircraft's BOW.

Example single seat items include:

- Crew members
- Passengers
- Passengers with infants
- Cargo.

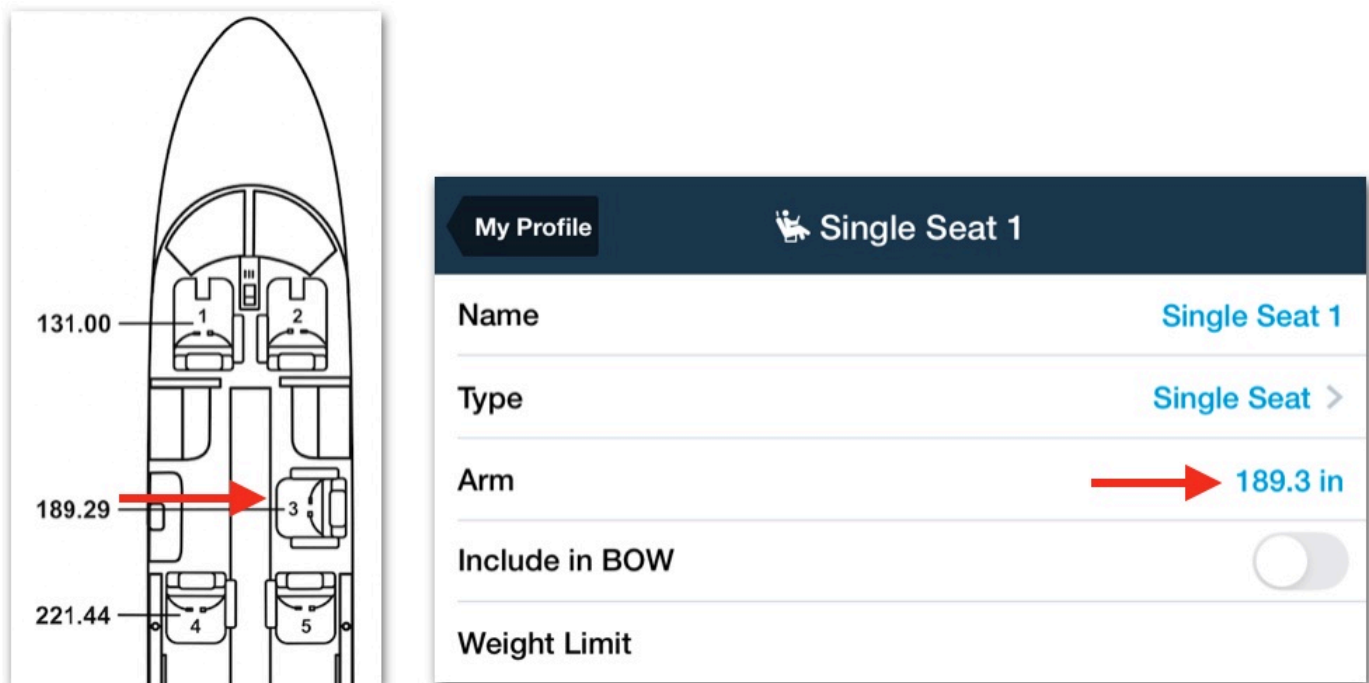


Figure 2-26. Example of a Single Seat

2.7.2 Row of Seats Station

Use **Row of Seats** when two or more seats share a common arm.

2. WEIGHT AND BALANCE PROFILES

Assign a descriptive name (e.g., Back Seats) and, if necessary, set a weight limit for the row.

Example row of seat items include:

- Crew members
- Passengers
- Passengers with infants
- Cargo.

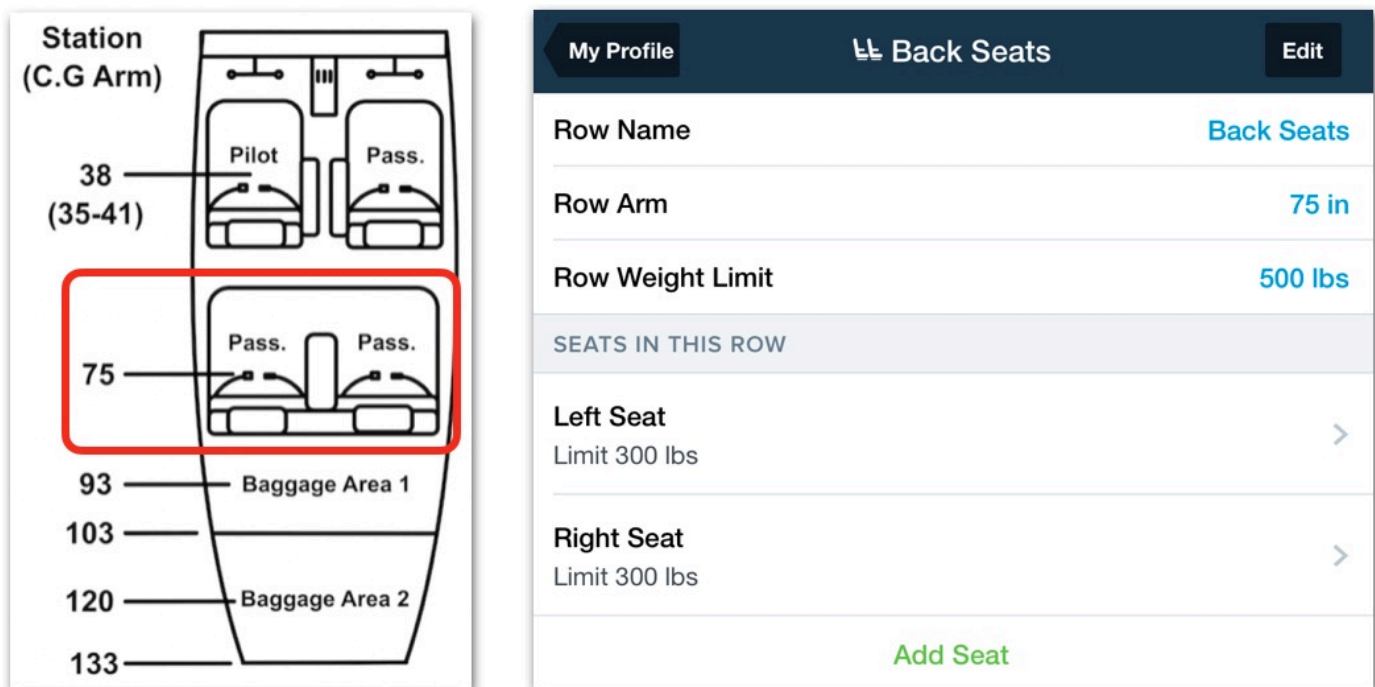


Figure 2-27. Adding a Row of Seats

2.7.2.1 Modifying Seat Layout

To modify seat layout:

- Tap **Add Seat** to increase the number of seats.
- Swipe right to left across a seat to remove it.
- Assign descriptive names to each seat (e.g., Left Seat, Right Seat, or Seat 1A, 2A, 3A, 4A).
- Add individual seat weight limits, if applicable.

2.7.3 Cargo Station

Use **Cargo** for each unique cargo compartment.

My Profile

Tail Compartment

Name	Tail Compartment
Type	Cargo >
Arm	296 in
Include in BOW	☐
Weight Limit	325 lbs

Figure 2-28. Cargo Station

For each cargo item, complete the following fields:

Name

Enter a descriptive name for the item.

Arm

Specify the arm length (typically to the center of the compartment).

Include in BOW

Enable this option if the item (1) remains on the aircraft at all times and (2) is not already included in the basic operating weight (BOW).

Weight

Enter the item's weight (if **Include in BOW** is enabled).

Weight Limits

Specify weight limits, if applicable.

Notes

See [Station Notes](#).

NOTE: If **Include in BOW** is enabled, the item becomes inactive during flight planning and the weight is added to the aircraft's BOW.

2.7.4 Fuel Tanks Station

ForeFlight Mobile supports aircraft with multiple fuel tanks and multiple fuel moment tables with variable arms. Fuel sequencing is only available in prebuilt ForeFlight Mobile templates.

2.7.4.1 Fuel with Fixed Arms

To add fuel tanks with fixed arms:

- 1 Select **Add Station**.
- 2 Select **Fuel**.
- 3 Enter the tank's name, arm, and weight limit.
- 4 Repeat for each fixed-arm tank.

2.7.4.2 Fuel with Variable Arms

Use this option when fuel consumption is asymmetrical and a moment table is available in the flight manual (as depicted in the image below).

To add a fuel moment table:

- 1 Toggle **Variable Fuel Station** on.
- 2 Tap **Add Fuel Moment** to add rows.
- 3 Enter the corresponding weight and moment values for all rows in the flight manual's Moment Table.

Fuel weights and moments do not need to be sequential, but organizing them in order is recommended. Ensure units of measure (i.e., lbs, in) match the aircraft flight manual.

NOTE: Fuel scheduling is supported only in prebuilt templates. It is not available in custom templates created from blank profiles.

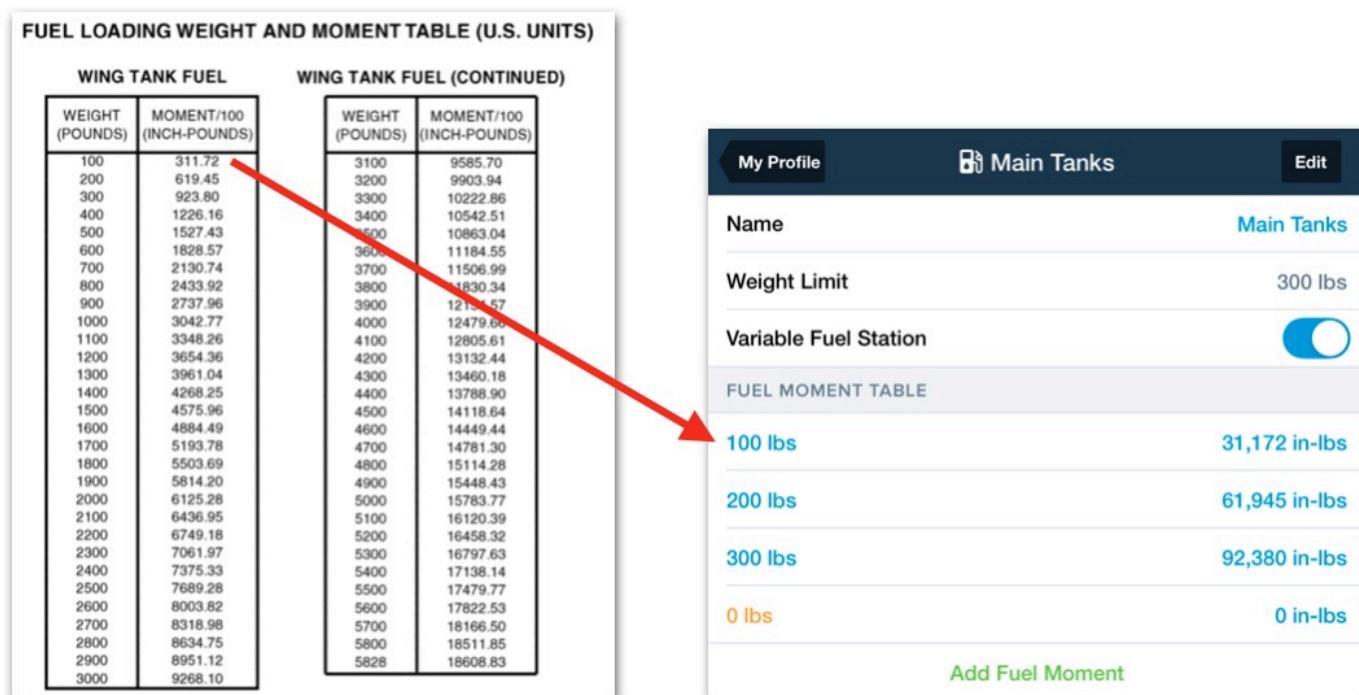


Figure 2-29. Adding Fuel Moment information from the Flight Manual to ForeFlight Mobile

NOTE: When calculating weight and balance, ForeFlight Mobile automatically calculates fuel weight based on type:

- **Jet-A:** 6.75 pounds per gallon
- **Jet-A Prist:** 6.75 pounds per gallon
- **100LL:** 6.0 pounds per gallon
- **Other:** 6.0 pounds per gallon

Custom fuel densities are not supported. Fuel type and unit are set in the aircraft profile under **More → Aircraft**.

2.7.5 Aircraft Items Station

Use **Aircraft Items** for components that do not carry fuel, cargo, or passengers.

My Profile

Supplemental Oxygen

Name	Supplemental Oxygen
Type	Aircraft Items >
Arm	78.6 in
Include in BOW	☐
Weight Limit	50 lbs

Figure 2-30. Aircraft Items

For each aircraft item, complete the following fields:

Name

Enter a descriptive name for the item.

Arm

Specify the arm length.

Include in BOW

Enable this option if the item (1) remains on the aircraft at all times and (2) is not already included in the basic operating weight (BOW).

Weight

Enter the item's weight (if **Include in BOW** is enabled).

Weight Limits

Specify weight limits, if applicable.

Notes

See [Station Notes](#).

NOTE: If Include in BOW is enabled, The item becomes inactive during flight planning and the weight is added to the aircraft's BOW.

Example aircraft items include:

- Wardrobe Closets
- Galley Storage
- Navigational Chart Cases
- Cabinets

2.7.6 Station Notes

Station notes provide guidance for completing the weight and balance profile.

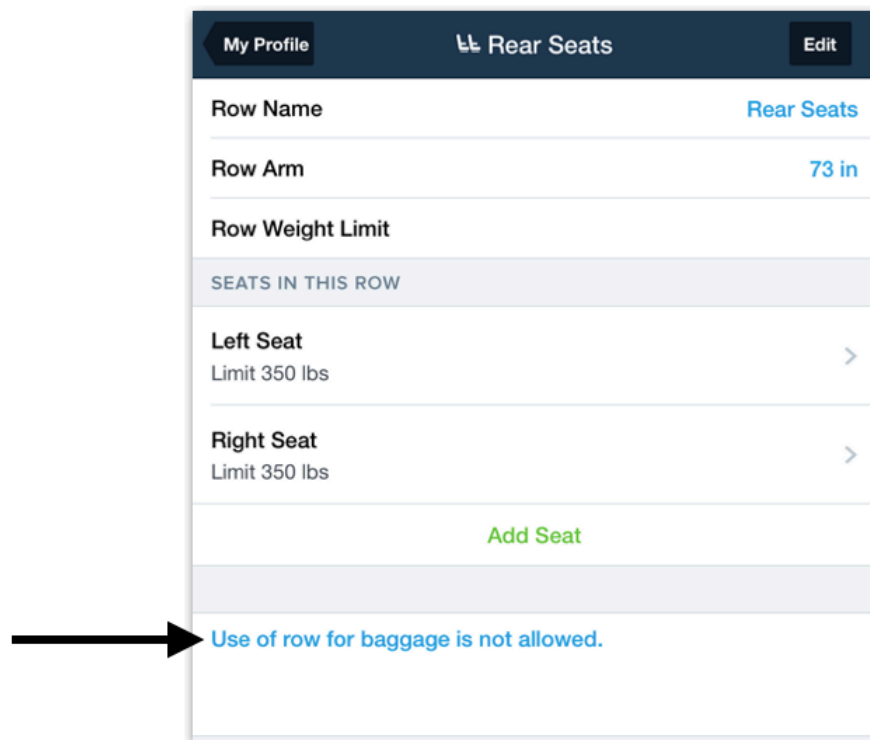


Figure 2-31. Adding a Note

Each station type other than the fuel station includes an option to add notes.

To add a note, tap the note section when editing or adding a station.

If notes exist, they appear at the bottom of the applicable station list (seats, cargo, or aircraft items). During weight and balance calculation, tap the note to view its contents.

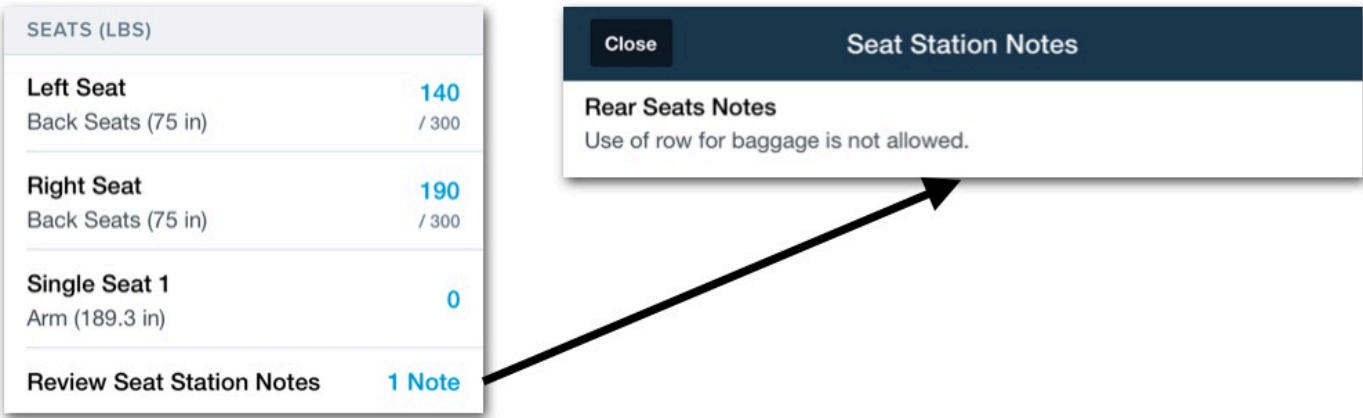
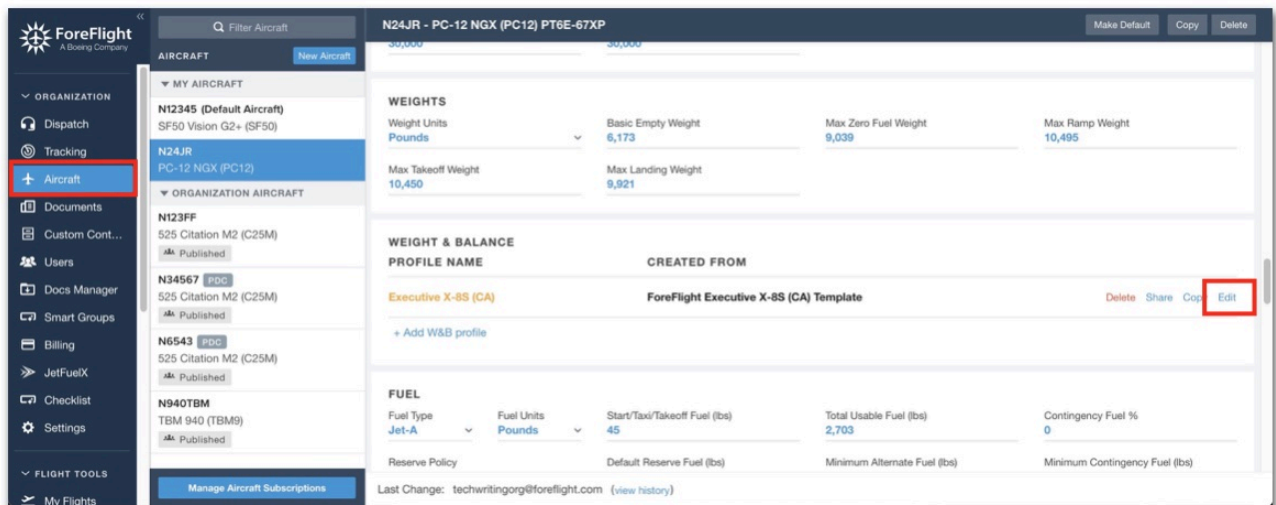


Figure 2-32. Notes View

2.8 Graphical Weight and Balance

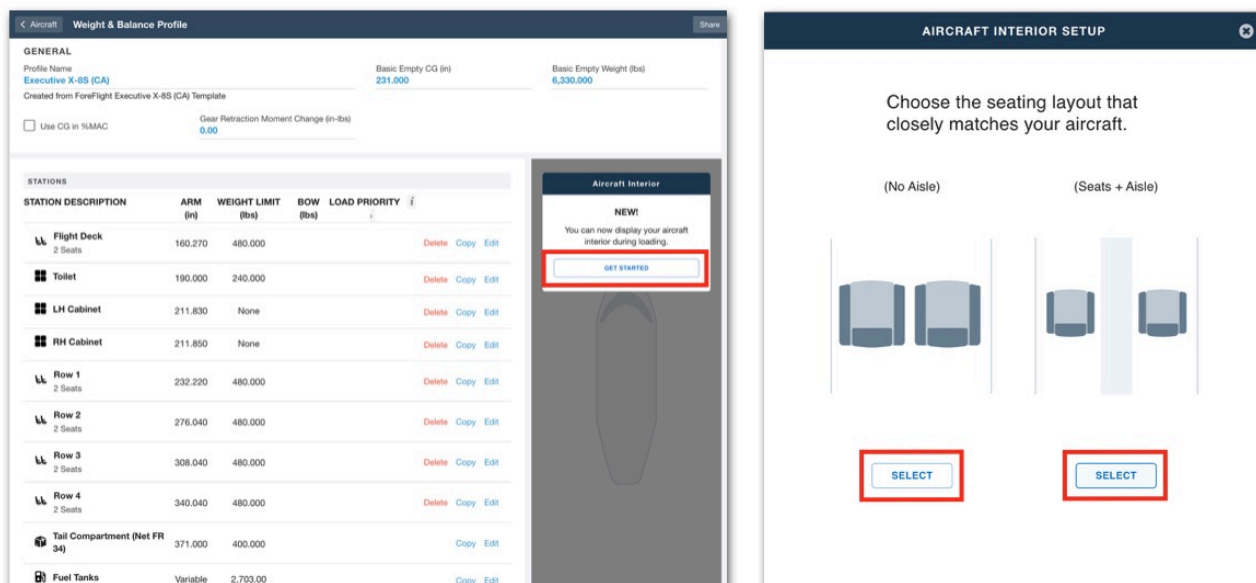
Graphical Weight and Balance is available exclusively with Premium, Business Performance, MFB Performance, and MFB One subscriptions. This feature can be enabled via the ForeFlight Web interface. To enable:

- 1 Go to plan.foreflight.com.
- 2 Navigate to the **Aircraft** tab.
- 3 Select the appropriate aircraft.
- 4 Click **Edit** in the Weight and Balance section to access the Weight and Balance profile.



- 5 Click **Get Started** to open the Interior Setup menu.

6 Select the aircraft seating layout.



2.8.1 Station Layout

A visual layout of aircraft stations is generated based on the stations defined in the profile.

- **Modifying Seats Laterally:** To move a seat laterally, select a seat and click the **left/right arrow**.
- **Modifying Seat Orientation:** To adjust the orientation, click the seat and select the **rotate** button until the seat aligns with the actual aircraft layout.
- **Adding or Removing Stations:** Any changes made to stations, as described in the Stations Section, are reflected automatically in the station layout diagram.

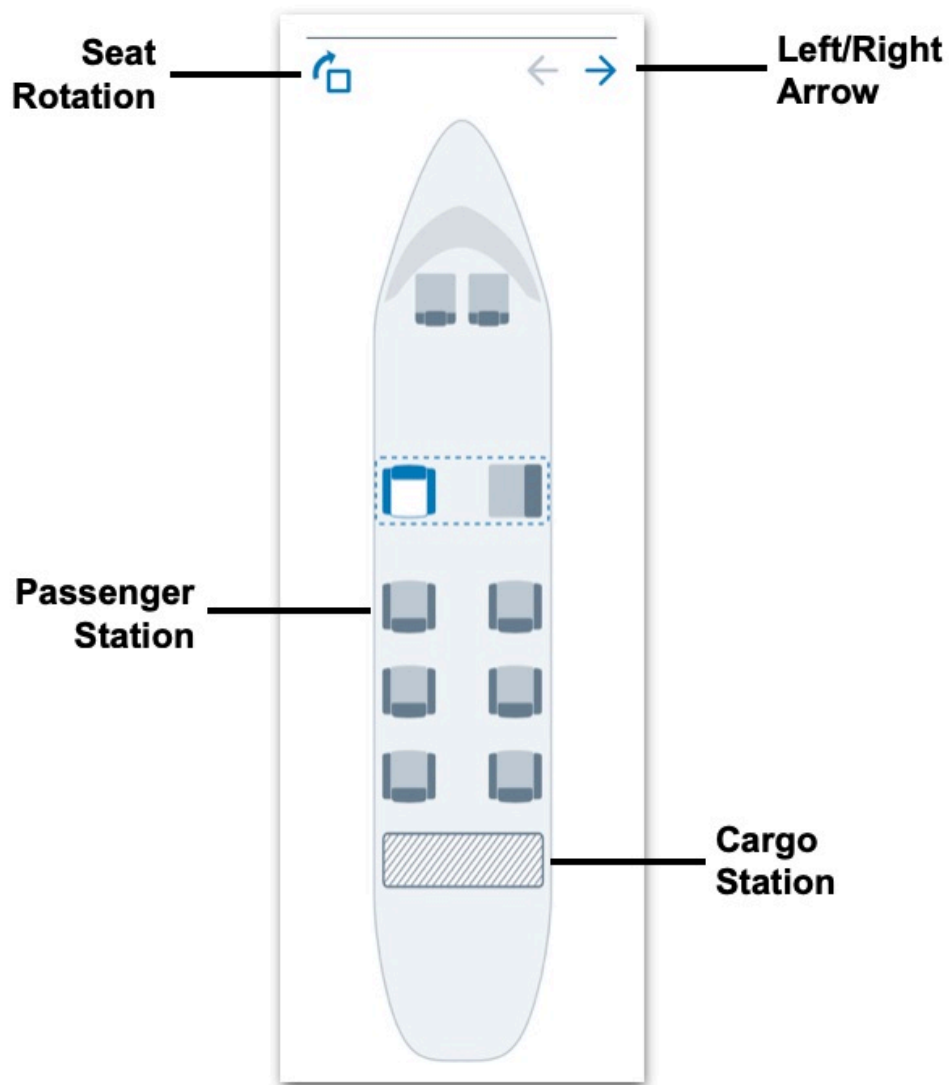


Figure 2-33. Station Layout

New stations may be added, as shown in the [Stations Section](#). Adding or removing stations will be reflected on the station layout diagram.

MIGRATION ASSISTANT

Legacy Weight and Balance profiles must be updated before use with Enhanced Weight and Balance. The Migration Assistant, available in ForeFlight Mobile (not ForeFlight Web), converts legacy profiles to the new format.

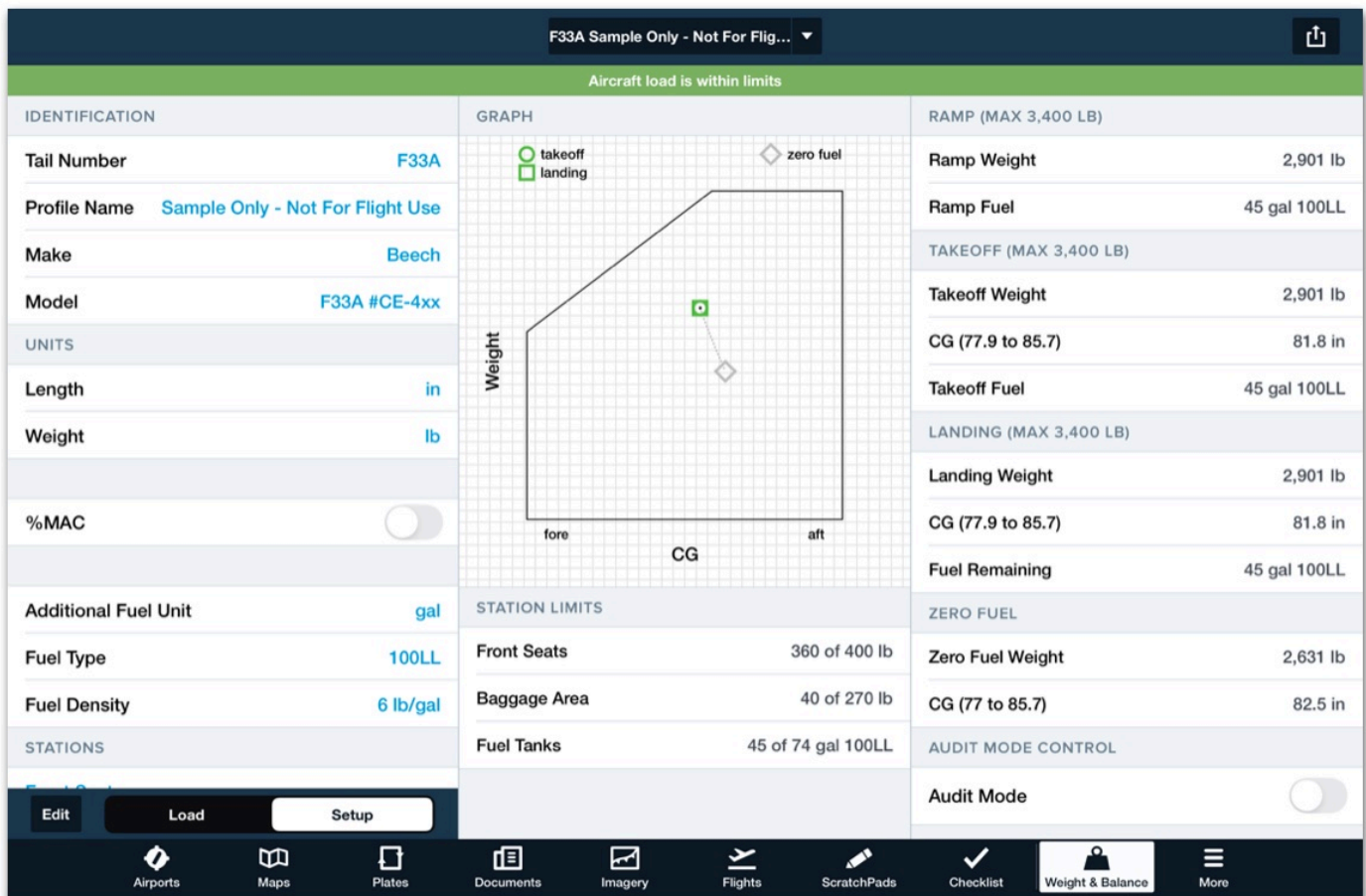


Figure 3-1. Legacy Weight and Balance

Migration Assistant transfers weight, station, and limit data from a legacy profile into the Enhanced format. Station types are automatically determined by evaluating the legacy profile's station names. For instance:

- A station named Aft Cabinet is classified as an Aircraft Item.
- A station named Front Aft-Facing Seats is classified as a Row of Seats.

3.1 Converting a Legacy Profile

To convert a Legacy Weight and Balance profile using ForeFlight Mobile:

- 1 Add a new weight and balance profile from either the **Weight & Balance** or **Aircraft** view.
- 2 Select the appropriate legacy profile from the list.
- 3 Choose the corresponding aircraft (when using the Weight & Balance view).
- 4 If **discrepancies** exist, select the correct default weight and aircraft units.
- 5 Confirm that the Migration Assistant correctly identified the station types and arm values.
- 6 Verify the number of seats configured for each seating row.
- 7 Tap **Done** to finalize the migration.

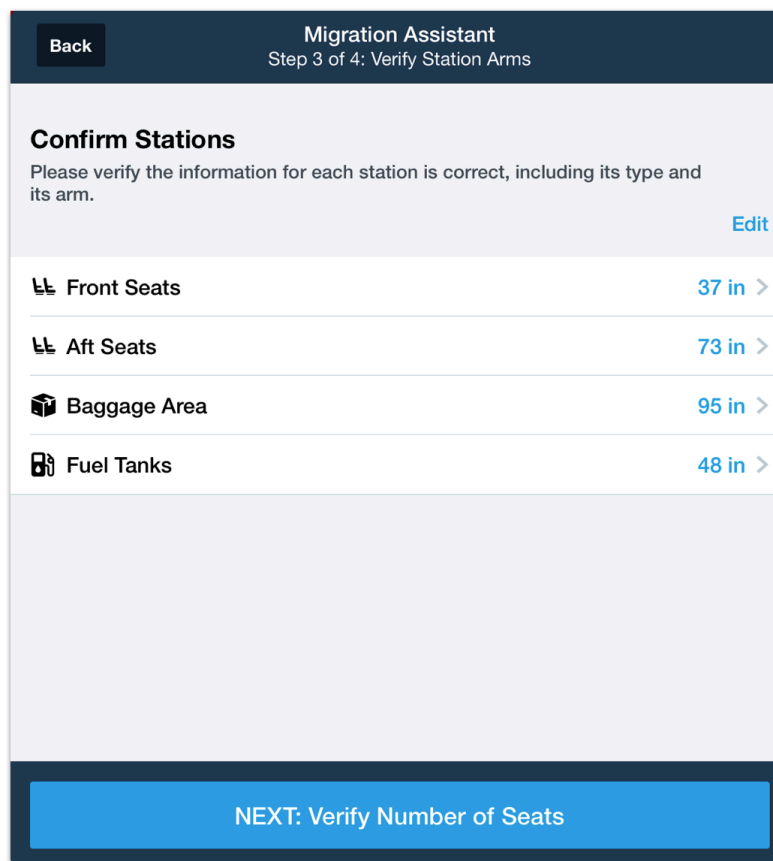


Figure 3-2. Migration Assistant

3.2 Migration Assistant Discrepancies

During migration, the system evaluates weight limits and unit types. If inconsistencies are detected between the type certificate database and the legacy profile:

- Default values must be manually selected.
- Significant discrepancies may indicate that the selected aircraft is not compatible with the legacy profile being migrated.

Ensure the migrated data reflects the correct aircraft configuration before saving the new profile.

Back Migration Assistant
Step 2 of 4: Select Defaults

Choose your defaults
Your Legacy Weight and Balance Profile's Weights and/or Units differ from the selected Aircraft. Please choose the Weights and Units you would like to continue with.

AIRCRAFT WEIGHT DEFAULTS

ForeFlight/User Generated Default Weights ☒
MTOW: 2,575 lbs, MRW: 2,584 lbs
MZFW: 2,575 lbs, MLDW: 2,575 lbs

Legacy Weight and Balance Profile Default Weights ☐
MTOW: 2,300 lbs, MRW: 2,300 lbs
MZFW: 2,300 lbs, MLDW: 2,300 lbs

AIRCRAFT UNITS

Weight Units Pounds

Length Units Inches

NEXT: Verify Station Arms

Figure 3-3. Migration Assistant Discrepancies

MANAGING WEIGHT AND BALANCE PROFILES

Weight and balance profiles are accessible from the **Aircraft**, **Weight & Balance**, and **Flights** (Premium, Business Performance, MFB Performance, and MFB One subscriptions) views. Profiles can be edited, copied, deleted, and shared. Profiles sync across all devices signed into the same ForeFlight Mobile account.

Multi-pilot accounts with published aircraft may only configure weight and balance profiles using an administrator account through ForeFlight Web.

Weight and Balance Profiles

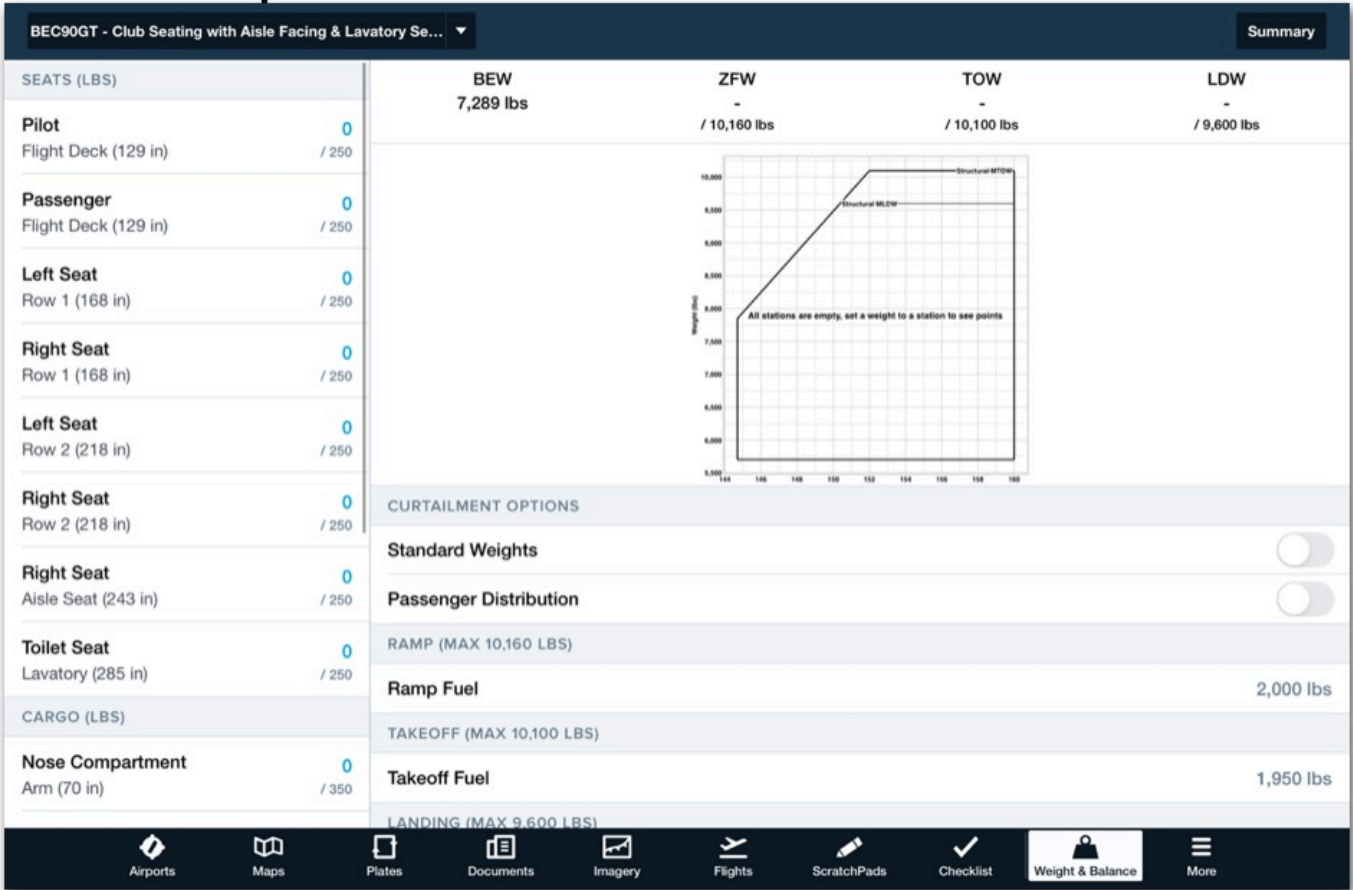


Figure 4-1. Weight & Balance View

4.1 Aircraft with Multiple Weight and Balance Profiles

An aircraft can have multiple weight and balance profiles to support different configurations, such as cargo, passenger, or VIP layouts. It is recommended to create a profile, copy it, and then modify the copy for each specific configuration.

4.2 Copying, Editing, and Deleting Profiles

Copying a profile creates a duplicate of the original with a different name. Copying, editing, and deleting are supported in the **Aircraft**, **Weight & Balance**, and **Flights** (Premium, Business Performance, MFB Performance, and MFB One subscriptions) views. Copying and editing a profile is the recommended process for generating multiple configurations of the same aircraft.

4.2.1 Copying, Editing, and Deleting Using the Aircraft View

To copy, edit, or delete a weight and balance profile from the **Aircraft** view:

- 1 Select **More**.
- 2 Select **Aircraft**.
- 3 Scroll to the Weight and Balance section.
- 4 Tap an existing profile.
- 5 Edit the template or scroll to the bottom.
- 6 Tap **Copy Profile** or **Delete Profile**.

4.2.2 Copying, Editing, and Deleting Using the Weight & Balance View

To copy, edit, or delete a weight and balance profile from the Weight & Balance view:

- 1 Select **More**.
- 2 Select **Weight & Balance**.
- 3 Choose an existing profile from the toolbar menu.
- 4 Tap **Edit**.
- 5 Edit the template or scroll to the bottom.
- 6 Tap **Copy Profile** or **Delete Profile**.

4.2.3 Copying, Editing, and Deleting Using the Flights View

Pilots with Premium, Business Performance, MFB Performance, and MFB One subscriptions can copy, edit, and delete weight and balance profiles from the **Flights** view. If no weight and balance has been calculated for a flight:

- 1 Select the **Flights** view.
- 2 Open the flight.
- 3 Tap **Weight & Balance**.
- 4 Tap **Edit** next to the profile.
- 5 Edit the template or scroll to the bottom.
- 6 Tap **Copy Profile** or **Delete Profile**.

4.3 Sharing Weight and Balance Profiles

Weight and balance profiles can be shared from the **Aircraft**, **Weight & Balance**, or **Flights** (Premium, Business Performance, MFB Performance, and MFB One subscriptions) views. Shared profiles do not sync between accounts; changes made by the sender are not reflected in the recipient's profile.

NOTE: Weight and balance profiles for published aircraft in multi-pilot accounts cannot be shared directly. However, these profiles may be copied, and the copy can be shared.

4.3.1 Sharing Profiles Using the Aircraft View

To share a weight and balance profile from the Aircraft view:

- 1 Select the **More** button.
- 2 Tap **Aircraft**.
- 3 Scroll to the Weight and Balance section.
- 4 Tap a profile.
- 5 Tap the **Send To** button in the upper toolbar.
- 6 Choose a sharing method from standard iOS options.

4.3.2 Sharing Profiles with the Weight & Balance View

To share a weight and balance profile from the Weight & Balance view:

- 1 Select the **More** button.
- 2 Tap **Weight & Balance**.
- 3 Select a profile using the toolbar menu.
- 4 Tap **Edit** in the upper toolbar.
- 5 Tap the **Send To** button in the pop-up.
- 6 Choose a sharing method from standard iOS options.

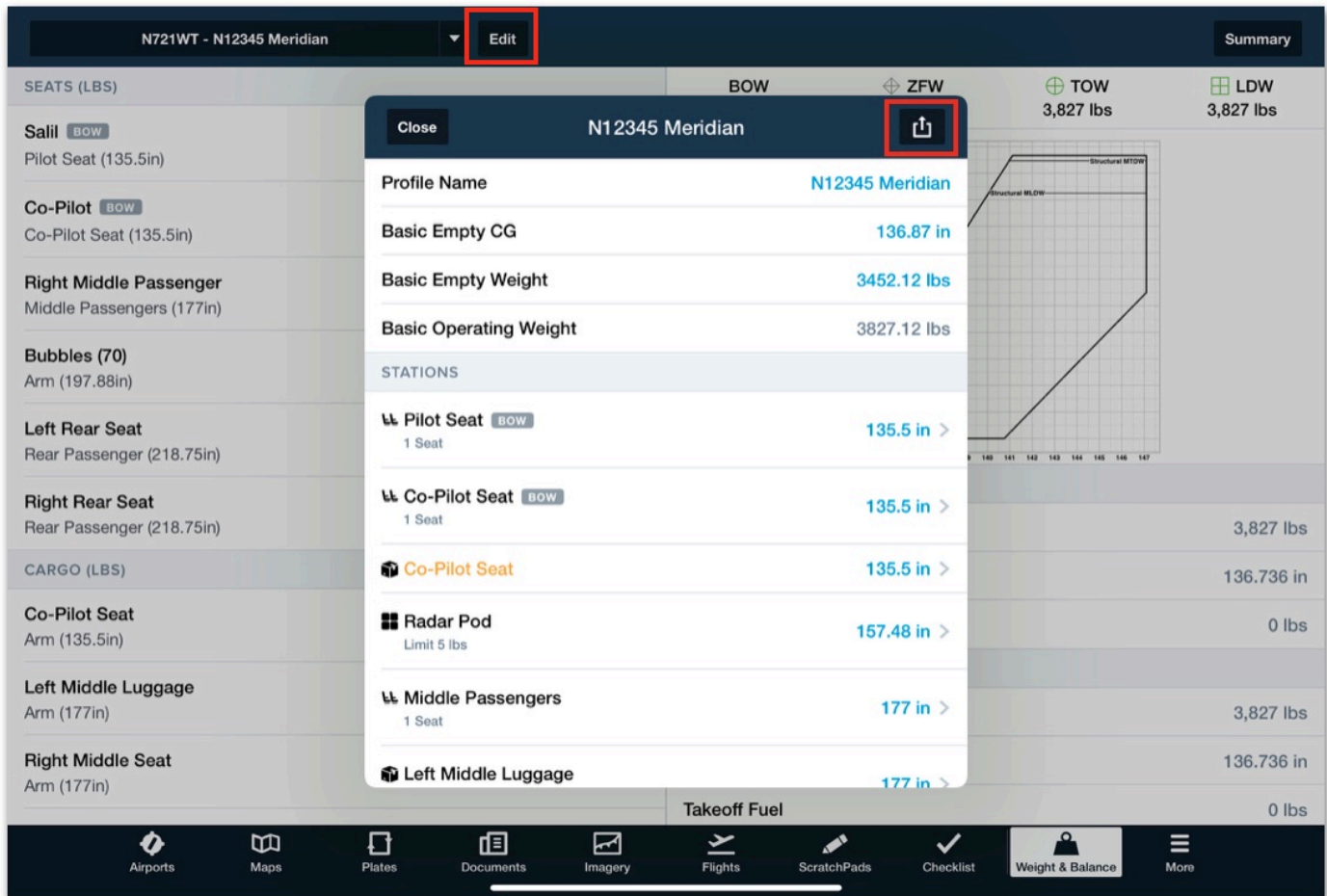


Figure 4-2. Sharing a weight and balance profile using the Weight & Balance view

4.3.3 Sharing Profiles Using the Flights View

If weight and balance has not yet been calculated for the flight, to share a profile (Premium, Business Performance, MFB Performance, and MFB One subscriptions) from the **Flights** view:

- 1 Open the **Flights** view.
- 2 Select a flight.
- 3 Tap **Weight & Balance**.
- 4 Tap **Edit** next to the profile.
- 5 Tap the **Send To** button in the upper toolbar of the pop-up.
- 6 Choose a sharing method from standard iOS options.

4.4 Importing a Shared Profile

Shared weight and balance profiles can be imported using an email or AirDrop.

4.4.1 Importing a Shared Profile via Email

To import a shared profile via email:

- 1 Open the **Mail** app.
- 2 Select the email titled Shared W&B Profile.
- 3 Tap the [Click](#) link to begin import. ForeFlight opens to the **Weight & Balance** view automatically.
- 4 Tap [Accept](#) when prompted.
- 5 Select the associated aircraft.
- 6 Verify the profile name, center of gravity, weights, and limits.
- 7 Tap [Profile Verified & Correct](#) to complete the import.

Imported profiles appear in the **Weight & Balance** view or in **More → Aircraft** under the associated aircraft. The import link may be used multiple times to create additional copies.

4.4.2 Importing a Shared Profile via Airdrop

When importing via AirDrop, ForeFlight Mobile opens automatically to the **Weight & Balance** view. Once the **Weight & Balance** view is shown:

- 1 Tap [Accept](#) when prompted.
- 2 Select the associated aircraft.
- 3 Verify the profile name, center of gravity (CG), weights, and limits.
- 4 Tap [Profile Verified & Correct](#) to complete the import.

Imported profiles appear in the **Weight & Balance** view or **More → Aircraft** under the associated aircraft. The import link may be used multiple times to create additional copies.

4.5 Weight and Balance Profile Missing Details

If a weight and balance profile is incomplete, it will be visually **highlighted**. Attempting to calculate weight and balance using an incomplete profile triggers a pop-up with the option to fix the missing information. Select **Fix** to make corrections.

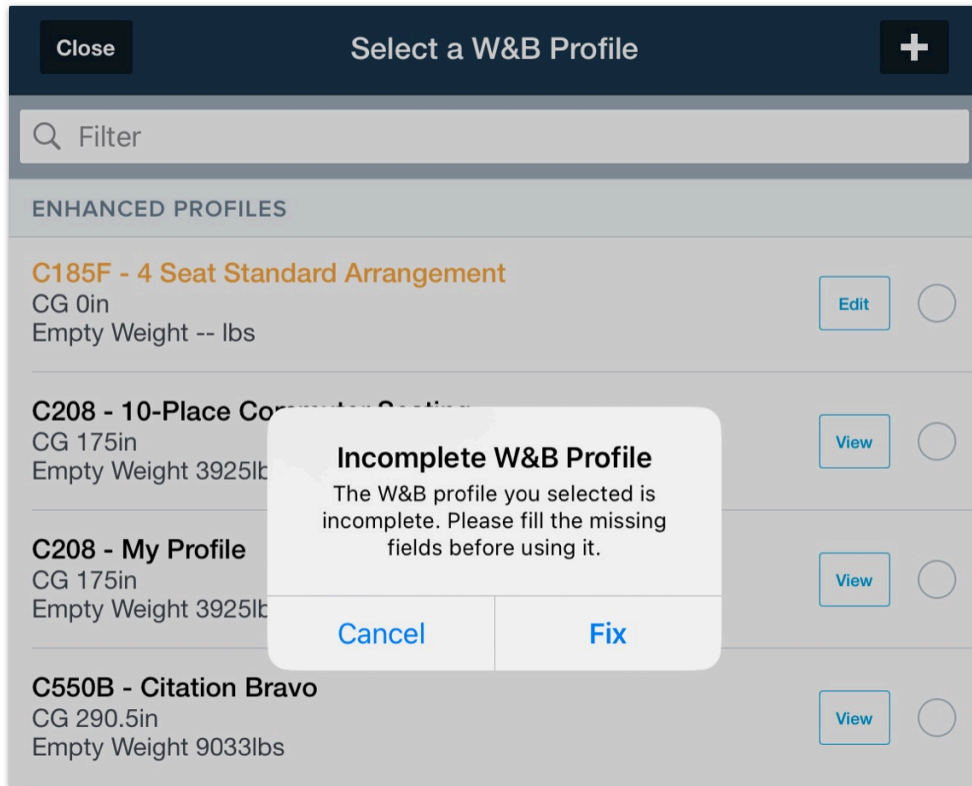


Figure 4-3. Incomplete Weight and Balance Profile

CALCULATING WEIGHT AND BALANCE

Weight and balance can be calculated using the **Weight & Balance** view. These calculations are independent of planned flights.

Pilots with Premium, Business Performance, MFB Performance, and MFB One subscriptions can also calculate weight and balance in the **Flights** view, where calculations are integrated with flight plans and persist as long as the flight exists. See [Integrated Weight and Balance](#).

Weight and balance calculations are not available on ForeFlight Web. However, customers with a Dispatch license can calculate weight and balance using the Dispatch Flight Editor. For more information, visit www.foreflight.com/dispatch-guide.

5.1 Calculating Weight and Balance

To calculate weight and balance using the **Weight & Balance** view:

- 1 Select the **More** button.
- 2 Select **Weight & Balance**.
- 3 Tap the profile dropdown menu.
- 4 Select a profile.
- 5 Tap each seat and enter a weight and description. Use **Standard Weights** or **Saved Loads** if desired. See [Seats](#) for more information.
- 6 Tap each cargo compartment and enter a weight and description. Use a **Saved Load** if desired.
- 7 Tap each aircraft item and enter a weight and description. Use a **Saved Load** if desired.
- 8 Tap the fuel tank and specify the pre-start fuel amount.
- 9 Tap fuel consumption and enter the ground and in-flight usage. Fuel weight is determined by the Fuel Type entered in the aircraft profile.

NOTE: Manually entered weights with descriptions are added to the Saved Load list per station. To delete, swipe right to left on the saved load.

5.2 Curtailment Tools

Curtailment tools are available to Military and multi-pilot business accounts to align with Advisory Circular 120-27F. These tools provide a more restrictive loading envelope than the manufacturers for simplified operations.

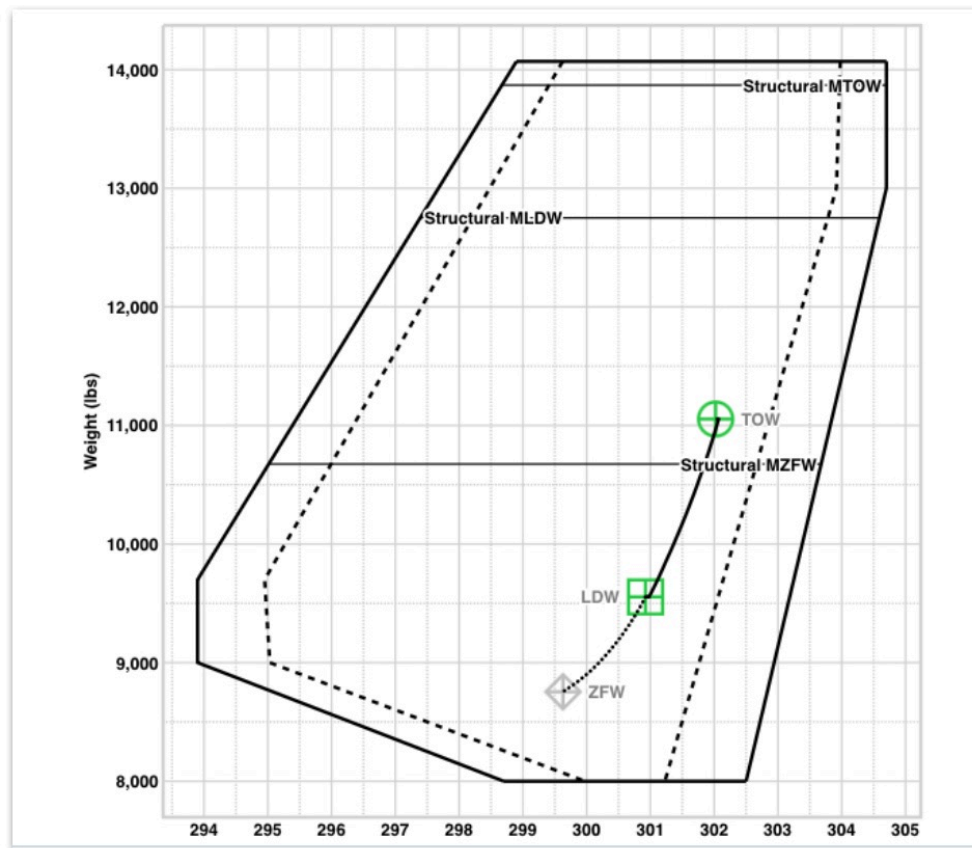


Figure 5-1. Weight and Balance Curtailed Envelope

WARNING: In-flight passenger movement and average baggage weight are not supported for curtailment. Supported curtailment tools are for standard average passenger weight and passenger distribution.

5.2.1 Standard Weights Curtailment Tool

When the Standard Weights Curtailment Tool is enabled, the app calculates a reduced center of gravity (CG) envelope based on seating capacity, average weights, and cabin centroid. The process estimates the possible variation in CG caused by statistical differences in passenger weights and seating distribution.

5. CALCULATING WEIGHT AND BALANCE

Use the Standard Weights Curtailment tool under the following conditions:

- Passenger seating locations are predetermined.
- Actual passenger weights are unavailable.
- Curtailment of the envelope is required using standard passenger weights.

Do not enable the Standard Weights toggle if actual passenger weights are used.

5.2.1.1 Enabling Curtailment with Standard Weights

To enable curtailed weight and balance for Standard Weights, toggle the **Standard Weights** option in the weight and balance profile setup view (see [Curtailment Options](#)). When enabled:

- The curtailed envelope is displayed as a dashed line.
- Standard weights are set in **More → Settings → Standard Weights**.
- Passenger weights are not replaced with standard weights.
- Payload is not recalculated using standard weights.

This toggle is intended solely for visualizing envelope curtailment under standard weight assumptions.



Figure 5-2. Standard Weights Toggle Switch

5.2.1.2 Calculating the Standard Weights Curtailed Envelope

The Standard Weights Curtailed Envelope calculations account for potential imbalances, such as all-male loading or varying distributions of passenger weights, and determine how much the CG could shift under these conditions. It evaluates forward-to-aft and aft-to-forward loading sequences and compares these against the aircraft's cabin centroid to find the greatest possible CG deviation.

The final curtailed envelope is determined by reducing the forward and aft CG limits based on the maximum deviation. This conservative envelope ensures the aircraft remains within manufacturer-approved loading limits when using standard weights.

NOTE: All calculations are performed automatically by the app and are based on FAA Advisory Circular 120-27F guidelines.

5.2.2 Passenger Distribution Curtailment Tool

The Passenger Distribution Curtailment Tool accounts for variations in passenger seating that may affect center of gravity (CG) calculations. The tool assumes that passengers may occupy any seat in the cabin and calculates a curtailed CG envelope based on the full forward and full aft seating scenarios to represent worst-case loading conditions.

NOTE: The [Curtailment Option](#) setting in the weight and balance profile determines whether the tool is enabled by default.

5.2.2.1 Enabling Passenger Distribution Curtailment

To enable passenger-distribution curtailment:

- 1 Tap the **Passenger Distribution** toggle switch.
- 2 When enabled, the curtailed CG envelope appears as a dashed line.

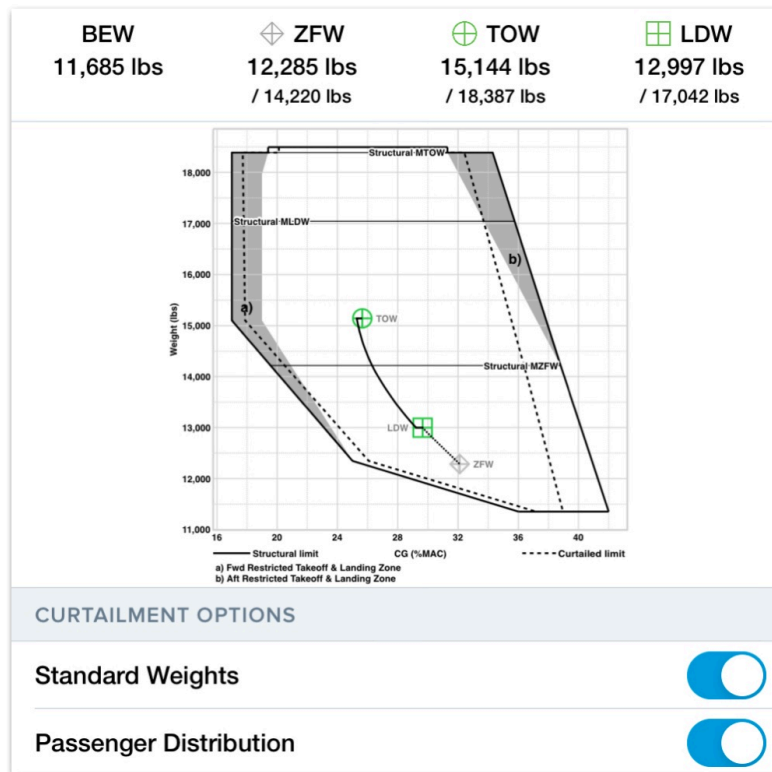


Figure 5-3. Passenger Distribution Curtailment

This tool is intended for use when the weights of all passengers are known, but their seating positions are not predetermined. If the **Standard Weights** toggle is also enabled, the calculation will use standard weights instead of actual passenger weights.

IMPORTANT: The **Passenger Distribution** toggle does not alter passenger seating arrangements or recalculate payload. It only adjusts the CG envelope display to show limits based on worst-case seating scenarios.

5.2.3 Calculating the Passenger Distribution Curtailed Envelope

The Passenger Distribution Curtailment Tool automatically calculates a reduced center of gravity (CG) envelope to reflect worst-case seating scenarios based on known passenger weights or Standard Weights (if enabled). It estimates how the CG could shift by simulating worst-case seating distributions, where the heaviest passengers are first seated in the forwardmost or aftmost positions, followed by progressively lighter passengers.

By comparing these extreme loading conditions with the actual distribution, the tool identifies the maximum potential CG deviation. The resulting forward and aft curtailment values are displayed as dashed lines within the CG envelope.

If the calculated CG falls within these dashed limits, the aircraft is considered loaded within manufacturer-approved limits regardless of how passengers are distributed.

5.2.4 Special Considerations for Seats

Each seat station in the weight and balance setup includes fields for:

- **Load Weight** - The actual weight of the person or object.
- **Type** - Select **Person** if the seat is occupied by a person. Select **Other** if it is an object. The **Person** type includes the weight in the passenger count, whereas **Other** does not.
- **Description** - Used to:
 - Create a new **Saved Load**.
 - Differentiate loads in the summary

The screenshot shows a mobile application interface for configuring a Pilot seat. At the top, there is a dark blue header bar with a 'Close' button on the left, the title 'Pilot' in the center, and a 'Clear' button on the right. Below the header, the form is divided into several sections. The first section has a 'Load Weight' field with a value of '190 lbs' in blue text. The second section has a 'Type' field with two buttons: 'Person' (highlighted in blue) and 'Other' (greyed out). The third section has a 'Description' field with a value of 'J Smith' in blue text. Below this is a light blue bar with the text 'Add a Description to save a load'. The next section is titled 'STANDARD WEIGHTS' in blue. It contains three rows: 'Male' with '205 lbs' and a radio button, 'Female' with '184 lbs' and a radio button, and 'Child' with '87 lbs' and a radio button. Below this is another light blue bar titled 'SAVED LOADS'. The final row shows 'Pilot' with '210 lbs' and a radio button.

Pilot		
Load Weight	190 lbs	
Type	☒ Person ☐ Other	
Description	J Smith	
Add a Description to save a load		
STANDARD WEIGHTS		
Male	205 lbs	☐
Female	184 lbs	☐
Child	87 lbs	☐
SAVED LOADS		
Pilot	210 lbs	☐

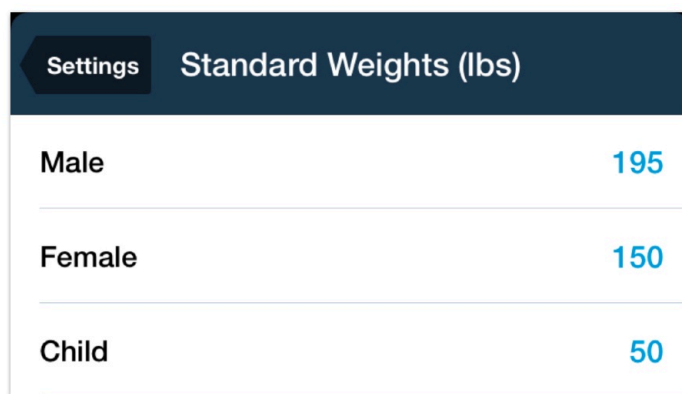
Figure 5-4. Example Pilot Seat

5.2.4.1 Standard Weights

Standard weights provide a quick way to enter passenger weights using predefined values.

To edit standard weights:

- 1 Navigate to **More → Settings → Standard Weights** (scroll to the bottom of the settings list).
- 2 Tap the desired weight to edit.
- 3 Make changes.
- 4 Exit the menu or tap the **Settings** back button.



Settings Standard Weights (lbs)	
Male	195
Female	150
Child	50

Figure 5-5. Standard Weight Settings

5.2.4.2 Saved Loads

A Saved Load is automatically created when a load is given a description. This feature enables quick reentry of frequent loads. Tap a saved load to add it to a station. Delete a saved load by swiping it from right to left.

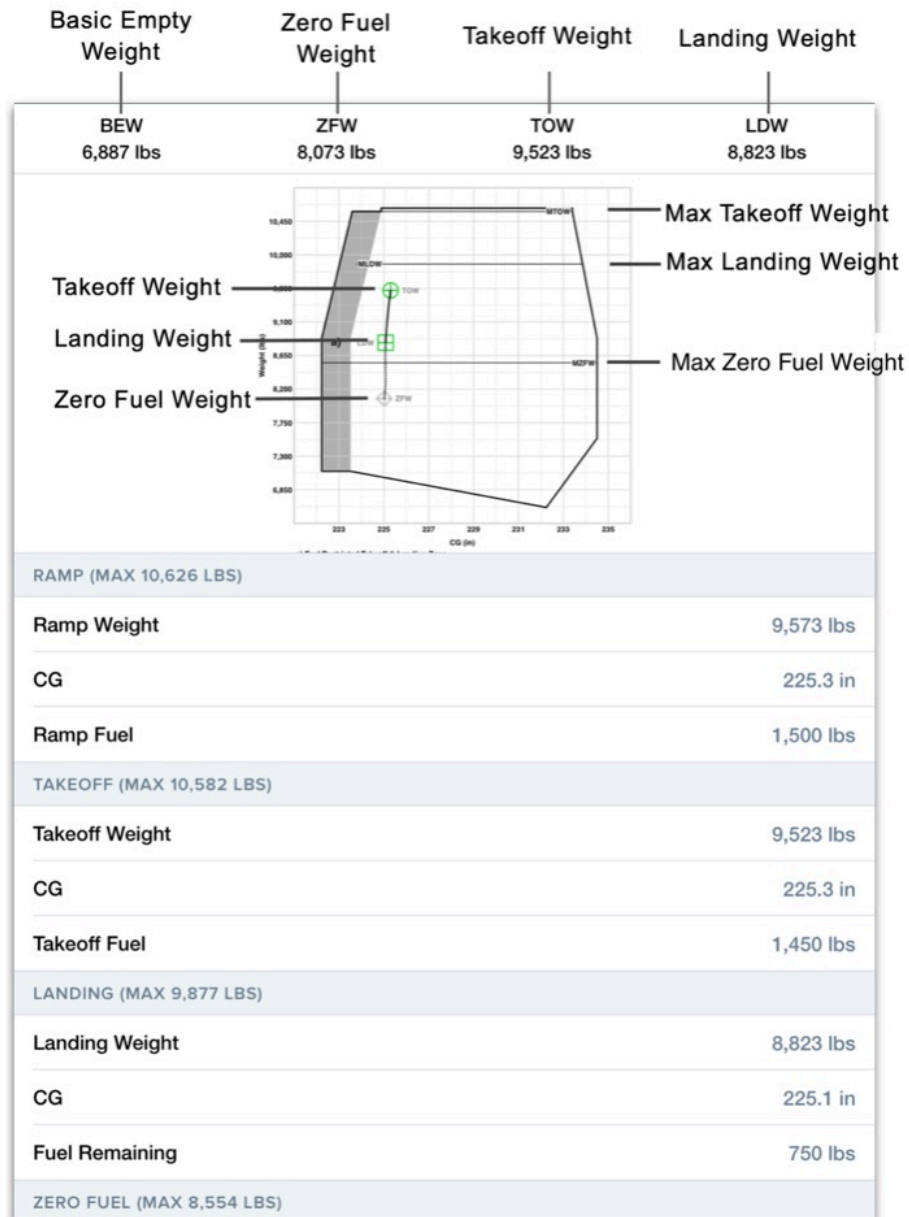
The image shows a mobile application interface for calculating weight and balance. At the top, there is a dark blue header with three buttons: "Close", "Pilot", and "Clear". Below the header, the form contains several input fields and sections. The "Load Weight" field is set to "190 lbs". The "Type" field has two buttons: "Person" (selected) and "Other". The "Description" field is set to "J Smith". Below this is a light blue bar with the text "Add a Description to save a load". The next section is titled "STANDARD WEIGHTS" and lists three options: "Male" (205 lbs), "Female" (184 lbs), and "Child" (87 lbs), each with an unselected radio button. Below this is a section titled "SAVED LOADS" which lists one entry: "Pilot" (210 lbs) with a selected radio button. To the left of the "Pilot" entry, the text "Saved Load" is written in bold, with a horizontal line pointing to the radio button.

Category	Item	Weight	Selected
STANDARD WEIGHTS	Male	205 lbs	☐
	Female	184 lbs	☐
	Child	87 lbs	☐
SAVED LOADS	Pilot	210 lbs	☒

Figure 5-6. Saved Load

5.3 Weight and Balance Results

Weight and balance results are dynamically displayed on the right side of the screen. The graph visually represents key data points, including weight and center of gravity (CG) limits, as well as takeoff, landing, and zero fuel weights.

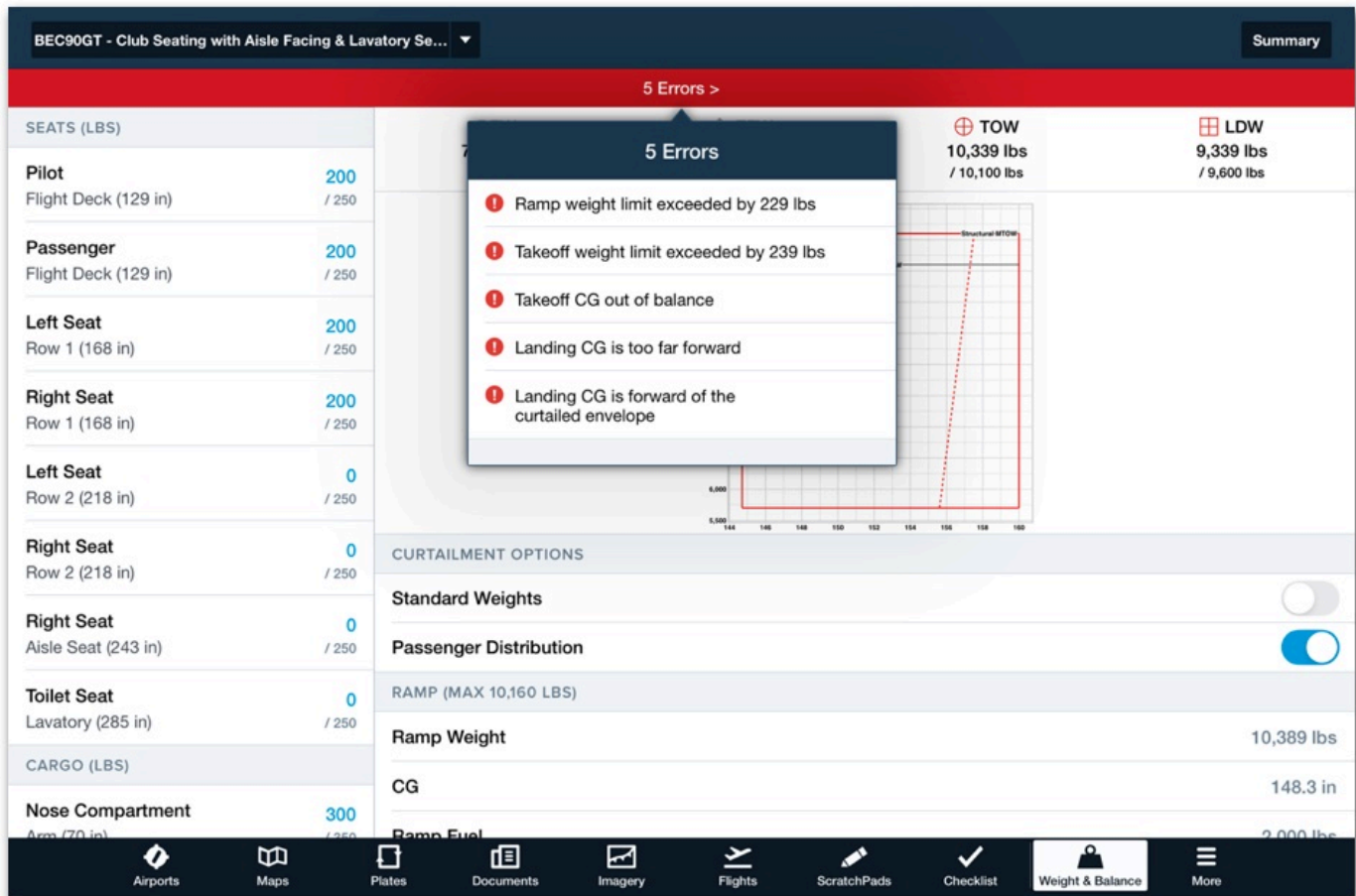


Weight and Balance Results

	Takeoff Weight		Landing Weight		Zero Fuel Weight
	Max Takeoff Weight Limit Exceeded		Max Landing Weight Exceeded		ZFW Exceeded

5.4 Warnings

When a weight or balance limitation is exceeded, a warning appears near the top of the screen. The graph also changes color to indicate the issue. If multiple warnings are present, tap the warning label to view additional details.



Weight and Balance Warnings

	Takeoff Weight		Landing Weight		Zero Fuel Weight
	Max Takeoff Weight Limit Exceeded		Max Landing Weight Exceeded		ZFW Exceeded

When using the **Standard Weights** or **Passenger Distribution** Curtailment tools, the results display similar visual indicators when limits are exceeded:

- The dashed lines representing the curtailed envelope appear in red.
- Weight and balance elements outside the envelope (e.g., takeoff weight and landing weight) are shown in red.

5. CALCULATING WEIGHT AND BALANCE

- A red warning label appears at the top of the screen. Tap the label to view detailed information about the issue.

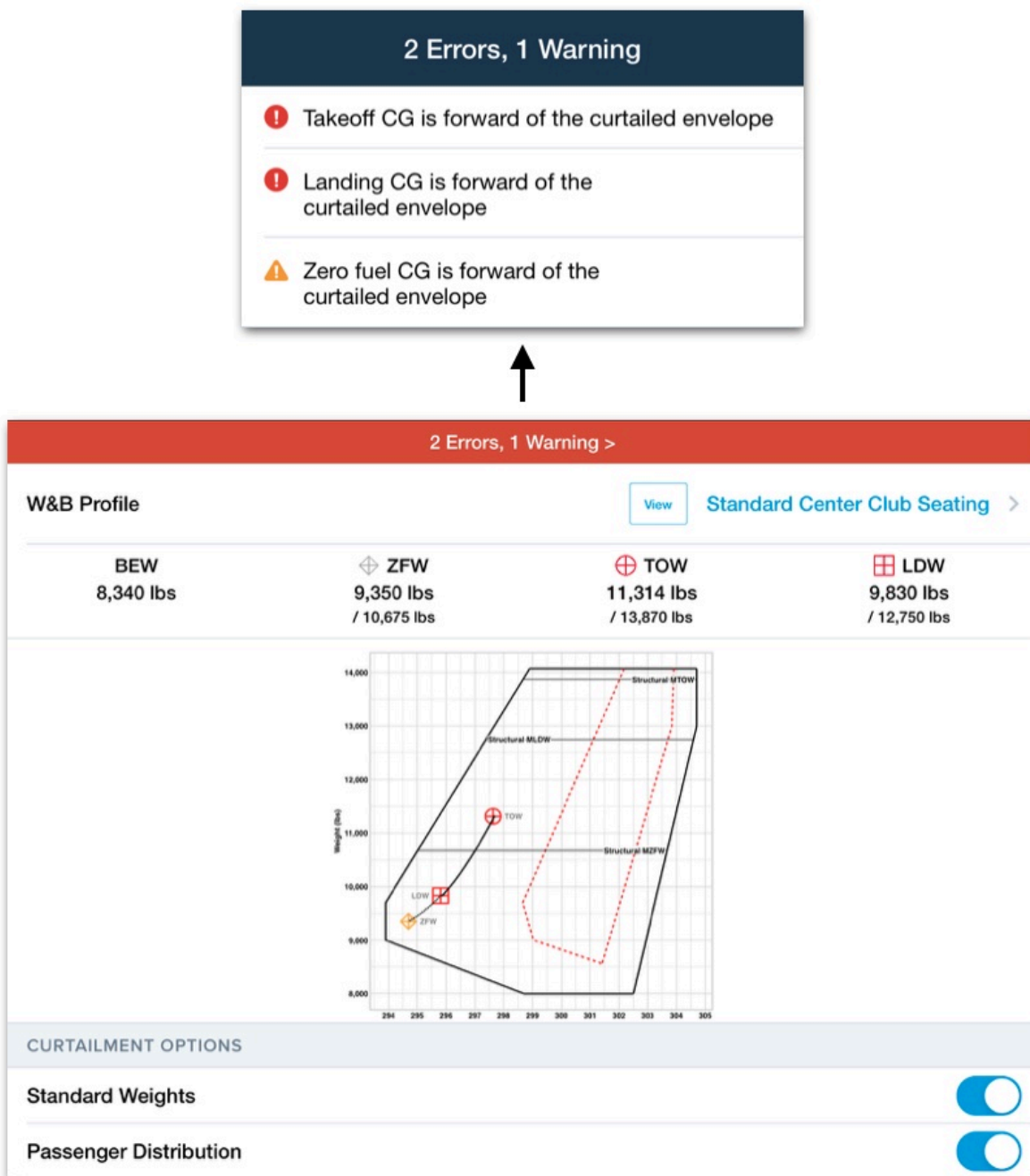


Figure 5-7. Curtailment Planning Error Indications

5.5 Weight and Balance Load Summary

Tapping the **Summary** button in the upper toolbar generates a PDF copy of the load summary. To share the PDF, tap the **Send To** button and select an option from the share menu. The summary can be AirDropped, emailed, printed, or saved to an external app.

The PDF includes fields for a signature, name, and date. The summary may be printed and signed manually or signed digitally using markup tools on the device.

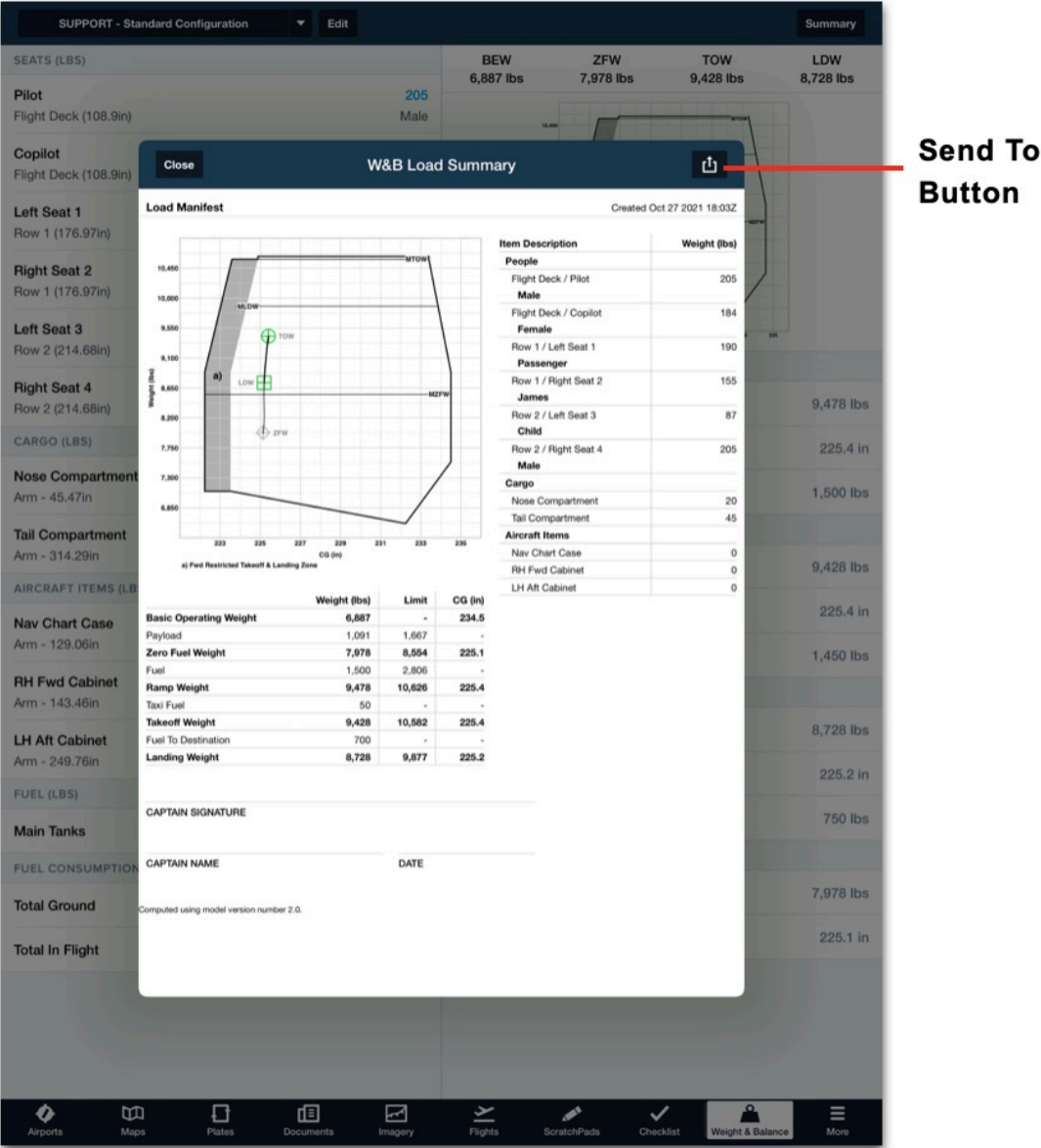


Figure 5-8. Weight and Balance Load Summary

5.5.1 Signing the Load Summary

Digital signatures cannot be added from the preview pop-up window. To sign the load summary digitally, use a third-party app, ForeFlight Mobile, or Markup.

5.5.1.1 Signing with a Third-Party App

To sign using a third-party app:

- 1 Tap **Summary** to open the load summary preview.
- 2 Tap the **share** button.
- 3 Select a third-party app (e.g., Mail, Dropbox, Google Drive, Files).
- 4 Open the third-party app.
- 5 Sign and date the load manifest using the annotation tool in the app.

5.5.1.2 Signing with ForeFlight Mobile

To sign using ForeFlight Mobile:

- 1 Tap **Summary** to open the load summary preview.
- 2 Tap the **share** button.
- 3 Select a third-party app (e.g., Mail, Dropbox, Google Drive, Files).
- 4 Open the third-party app.
- 5 Tap the **share** button again.
- 6 Export the summary from the third-party app back to ForeFlight Mobile.
- 7 When ForeFlight Mobile opens, choose **Documents** or **Flights**:
 - Selecting **Documents** adds the summary to the Imported Documents Drive.
 - Selecting **Flights** provides a prompt for choosing a flight (Premium, Business Performance, MFB Performance, and MFB One subscriptions only).
- 8 Use ForeFlight Mobile's annotation tools to sign and date the summary.

5.5.1.3 Signing Using Markup

The share menu includes a **Markup** option, which opens the iOS built-in PDF editor. Using **Markup**, the summary can be signed and dated directly on the device.

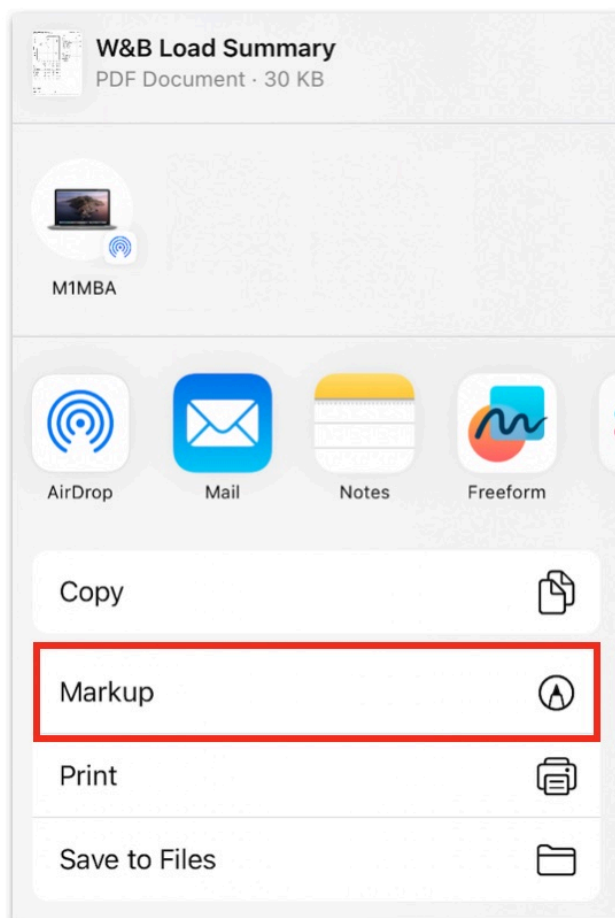


Figure 5-9. Share Menu with Option to Markup

NOTE: Load summaries signed with Markup cannot be returned directly to ForeFlight Mobile. However, if needed, they may be shared with a third-party app and imported into ForeFlight Mobile afterward.

5.6 Integrated Weight and Balance

Integrated Weight and Balance streamlines the flight planning process by transferring payload and fuel data from the **Flights** view to the **Weight & Balance** view. Calculations are retained with the flight and remain accessible as long as the flight is not deleted. To calculate weight and balance, tap the **Weight and Balance** button.

The screenshot displays a flight planning interface for the route KCXO to KAUS on Thursday, May 22, at 14:25 CDT. The top section shows flight details: Distance (118 nm), ETE (0h21m), ETA (CDT) (14:45), Flight Fuel (1,319 lbs), and Wind (14 mph head). Below this is a table for PAYLOAD (LBS) with columns for COUNT, AVG WT., and TOTAL. The table lists People (3, 200, 600) and Cargo (0, 0, 0), with a Total Payload of 600. A red box highlights the 'Weight and Balance' button. Below the button is a section for FUEL with columns for GAL and LBS. The Fuel Policy is set to 'Minimum Fuel Required'. The Start section shows 16,843 lbs available, a MAX button, and fuel amounts of 468 GAL / 3,157 LBS, with a total of 2,963 GAL / 20,000 LBS.

KCXO to KAUS Thu May 22, 14:25 CDT				
Distance	ETE	ETA (CDT)	Flight Fuel	Wind
118 nm	0h21m	14:45	1,319 lbs	14 mph head
PAYLOAD (LBS)				
	COUNT	AVG WT.	TOTAL	
People	3	200	600	
Cargo			0	
Total Payload			600	
Weight and Balance				
FUEL		GAL	LBS	
Fuel Policy		Minimum Fuel Required >		
Start				
16,843 lbs available	MAX	468	3,157	
		/ 2,963	/ 20,000	

Figure 5-10. Tap to calculate Integrated Weight and Balance

NOTE: When using the People Count option to add passengers and crew, they are seated from front to back. Center of gravity (CG) considerations are not applied during this automatic distribution.

5.6.1 Calculating Integrated Weight and Balance

To calculate Integrated Weight and Balance:

- 1 Plan a flight using the **Flights** view.

5. CALCULATING WEIGHT AND BALANCE

- 2 Enter people and cargo information in the **Payload** section.
- 3 Verify the fuel load or select a fuel policy.
- 4 Tap **Weight and Balance**.
- 5 Select the desired weight and balance profile.
- 6 Verify seat, cargo, and aircraft items. Edit as needed.
- 7 Verify fuel weight. Edit as needed.

NOTE: Edits made in the **Weight and Balance** view are reflected in the flight plan. Payload can also be entered directly in the **Weight and Balance** view instead of the Flights view.

The screenshot displays the 'Weight and Balance' interface for a flight from KCXO to KAUS on May 22, 2025. The top section shows flight summary: Distance 143 nm, ETE 0h25m, ETA (CDT) 14:49, Flight Fuel 1,458 lbs, and Wind 12 mph head. Below this is a map of the route. The 'Route' section shows 'BORRN6 MNURE WLEEE7'. The 'Payload (LBS)' table is as follows:

	COUNT	AVG WT.	TOTAL
People	3	200	600
Cargo			0
Total Payload			600

Below the table, a red box highlights the 'Weight and Balance' button. Other options include 'Fuel Policy' (Minimum Fuel Required) and a 'Proceed to File' button. The bottom navigation bar includes icons for Airports, Maps, Plates, Documents, Imagery, Flights, ScratchPads, Checklist, Logbook, and More.

Figure 5-11. Integrated Weight and Balance

5.6.2 Integrated Weight and Balance Results

Weight and balance results are updated in real-time as payload and fuel inputs are entered. These fields remain editable at any time. Any change in the **Flights** view or **Weight & Balance** view is automatically reflected in the other.

Once flight details are verified, tap the **Back** button in the upper toolbar to return to the main **Flights** view. The **Weight and Balance** button is replaced with a status label indicating whether the aircraft's configuration is within limits. Tap this label to review or edit the weight and balance.

PAYLOAD (LBS)			
	COUNT	AVG WT.	TOTAL
▶ People	2	205	410
▶ Cargo			59
▶ Aircraft Items			600
Total Payload			1,069
Weight & Balance		In Balance	>
Remove Weight and Balance			

PAYLOAD (LBS)			
	COUNT	AVG WT.	TOTAL
▶ People	2	205	410
▶ Cargo			59
▶ Aircraft Items			6,000
Total Payload			6,469
Weight & Balance		Out of Balance	>
Remove Weight and Balance			

Figure 5-12. In Balance (Left) and Out of Balance (Right) Integrated Weight and Balance Labels

5.6.3 Removing Integrated Weight and Balance

Weight and balance calculations remain linked to a flight until the flight is deleted. To remove the weight and balance data without deleting the flight, tap the **Remove Weight and Balance** button at the bottom of the flight's Payload section.

PAYLOAD (LBS)			
	COUNT	AVG WT.	TOTAL
▶ People	2	205	410
▶ Cargo			59
▶ Aircraft Items			6,000
Total Payload			6,469
Weight & Balance		Out of Balance	>
Remove Weight and Balance			

Figure 5-13. Remove Weight and Balance Button

5.7 Graphical Weight and Balance

The station diagram provides a visual method for loading the aircraft. To input station data, tap a station to open the pop-over, then manually enter the weight or select a standard weight. Tap **Done** to apply the load. The updated value will be reflected in the station diagram.



Figure 5-14. Station Diagram

The screenshot shows the 'Right Seat 4' pop-over menu. It includes a 'Close' button at the top left and a 'Clear' button at the top right. The menu is divided into sections for 'Load Weight', 'Type', 'Description', 'Infant in Lap', and 'STANDARD WEIGHTS'.

Load Weight

Type: ☒ Person ☐ Other

Description: Optional

Infant in Lap: ☐

STANDARD WEIGHTS

Male: 205 lbs ☐

Female: 184 lbs ☐

Figure 5-15. Station Pop Over

5.8 Ballast Fuel

Ballast fuel is unusable fuel intentionally added to increase the zero fuel weight of the aircraft for the purpose of adjusting the center of gravity. This fuel is not used during flight operations and exists solely to help keep the center of gravity within allowable limits.

This feature is available for supported aircraft models with a Premium, Business Performance, MFB Performance, and MFB One subscriptions.

5.8.1 Adding Ballast Fuel

Ballast fuel can be added during weight and balance calculation from either the **Weight & Balance** or **Flights** view. If the center of gravity exceeds the aft limit and ballast fuel will correct the imbalance, a **USE** button appears next to the ballast fuel amount.

When weight and balance calculations are complete, ballast fuel is listed at the bottom of the flight's Fuel section, the Navlog, and the Weight and Balance Summary Document.

PAYLOAD (LBS)		
Weight & Balance		In Balance >
Remove Weight and Balance		
FUEL	GAL	LBS
Fuel Policy	Minimum Fuel Required >	
▼ Total Start 2,709 lbs available	MAX 708 / 1,109	4,776 / 7,485
Fuselage Tank	148	1,000
Wing Tanks	560	3,776
▼ Flight Fuel	360	2,428
Taxi Fuel	30	200
Fuel to Destination	330	2,228
▼ Fuel at Landing	349	2,347
Alternate Fuel	0	0
Reserve Fuel	169	1,138
Extra Fuel	0	0
Ballast Fuel Wing Tanks	180	1,209
WEIGHTS (LBS)		

**Ballast
Fuel**

Figure 5-16. Flights Planning Form

LEGACY WEIGHT AND BALANCE

ForeFlight Mobile version 14.2 introduced Enhanced Weight and Balance. Profiles created before this release are designated as Legacy profiles. These can be updated via the [Migration Assistant](#).

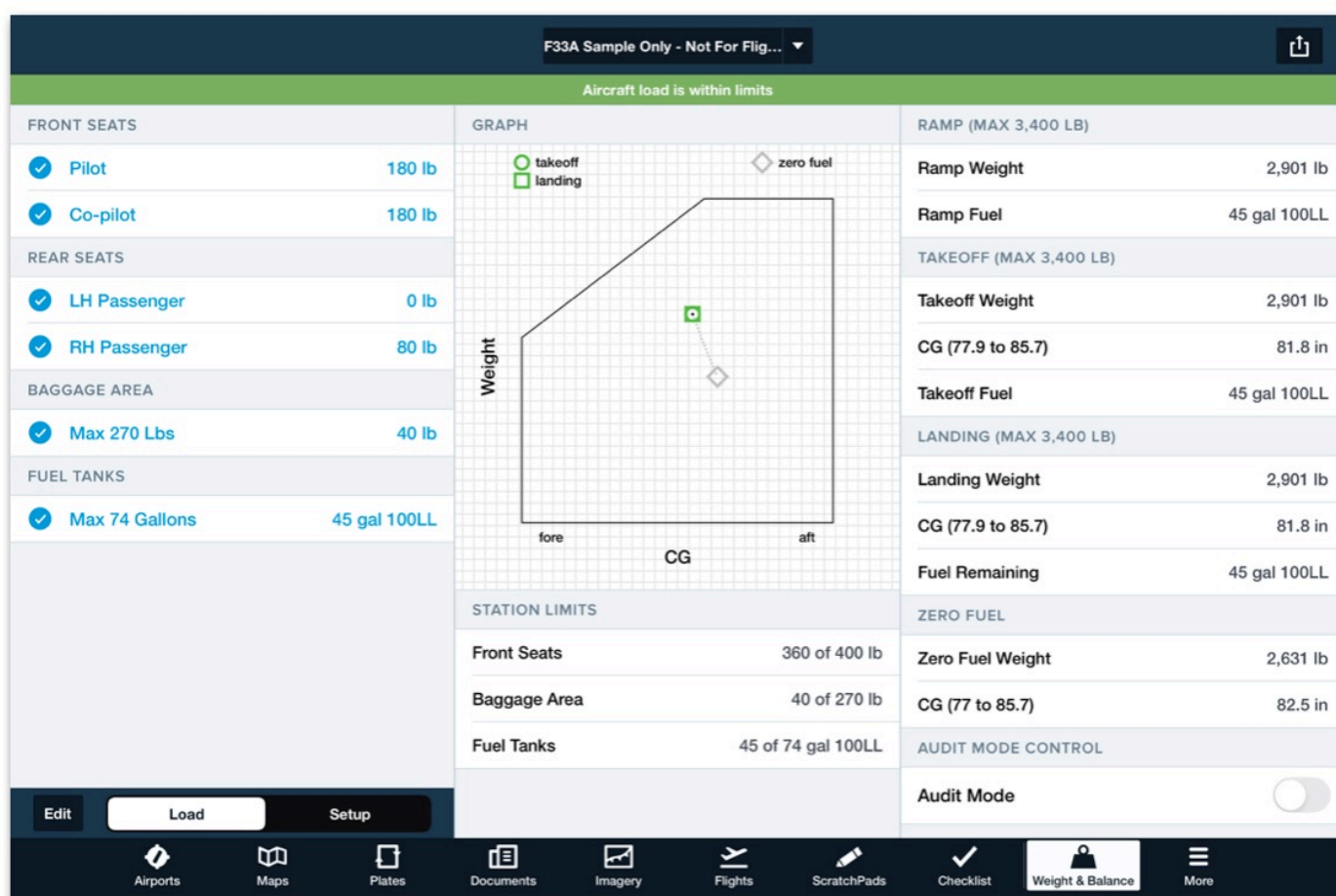


Figure 6-1. Legacy Weight and Balance

Legacy profiles remain usable for fixed-wing aircraft under the following conditions:

- Constant weight limits (i.e., do not vary with CG)
- Identical CG envelopes for takeoff and landing
- Single fuel moment table (i.e., a single variable-arm fuel station)

Legacy profiles are created using the **SmartOptions™** interview, which pulls data from FAA type certificates. The SmartOptions interview is available for many popular Cessna, Cirrus, Diamond, Mooney, and Piper aircraft.

NOTE: Legacy Weight and Balance does not support aircraft profile linking, station types, or integration with flights.

If a weight and balance profile is not found in the SmartOptions database, a profile can be manually created by completing the manual profile interview.

6.1 Creating Profiles

To create a Legacy Weight and Balance profile:

- 1 Select **More**.
- 2 Tap **Weight & Balance**.
- 3 Tap the **[+]** button or select **Add New Profile** from the dropdown in the upper toolbar.
- 4 Enter the aircraft tail number.
- 5 Tap **Next**.

If a match is found in the FAA database, the SmartOptions interview begins. If not, proceed with the manual interview.

6.1.1 SmartOptions Interview

When a profile match is found for an aircraft, station and limit details are automatically entered. To complete the SmartOptions interview:

- 1 Select the aircraft configuration.
- 2 Enter basic empty weight.
- 3 Enter basic empty CG.
- 4 Tap **Next**.

6.1.2 Manual Interview

If a profile does not exist for your aircraft, use the manual process:

- 1 Choose units for length, weight, and fuel burn.
- 2 Select the aircraft fuel type.
- 3 Specify the station types.
- 4 Enter the basic empty weight.
- 5 Enter the basic empty center of gravity.

6 Tap **Save**.

CHOOSE STATIONS FOR N12345	
Cockpit	☒
Front Seats	☐
Need More Seat Choices ... adds more seat choices in a later step	☒
Baggage Area	☒
Need More Baggage Choices ... adds more baggage choices in a later step	☐
Fuel Tanks	☒
Need More Fuel Choices ... adds more fuel choices in a later step	☐
Built-in Oxygen Tank	☒
De-ice Fluid Tank	☐

Figure 6-2. Manual Interview

6.1.3 Completing a Manual Profile

After completing the interview questions, to finalize the manual profile:

- Select **Setup** near the bottom of the screen.
- Enter station arms, limits, and CG limits.

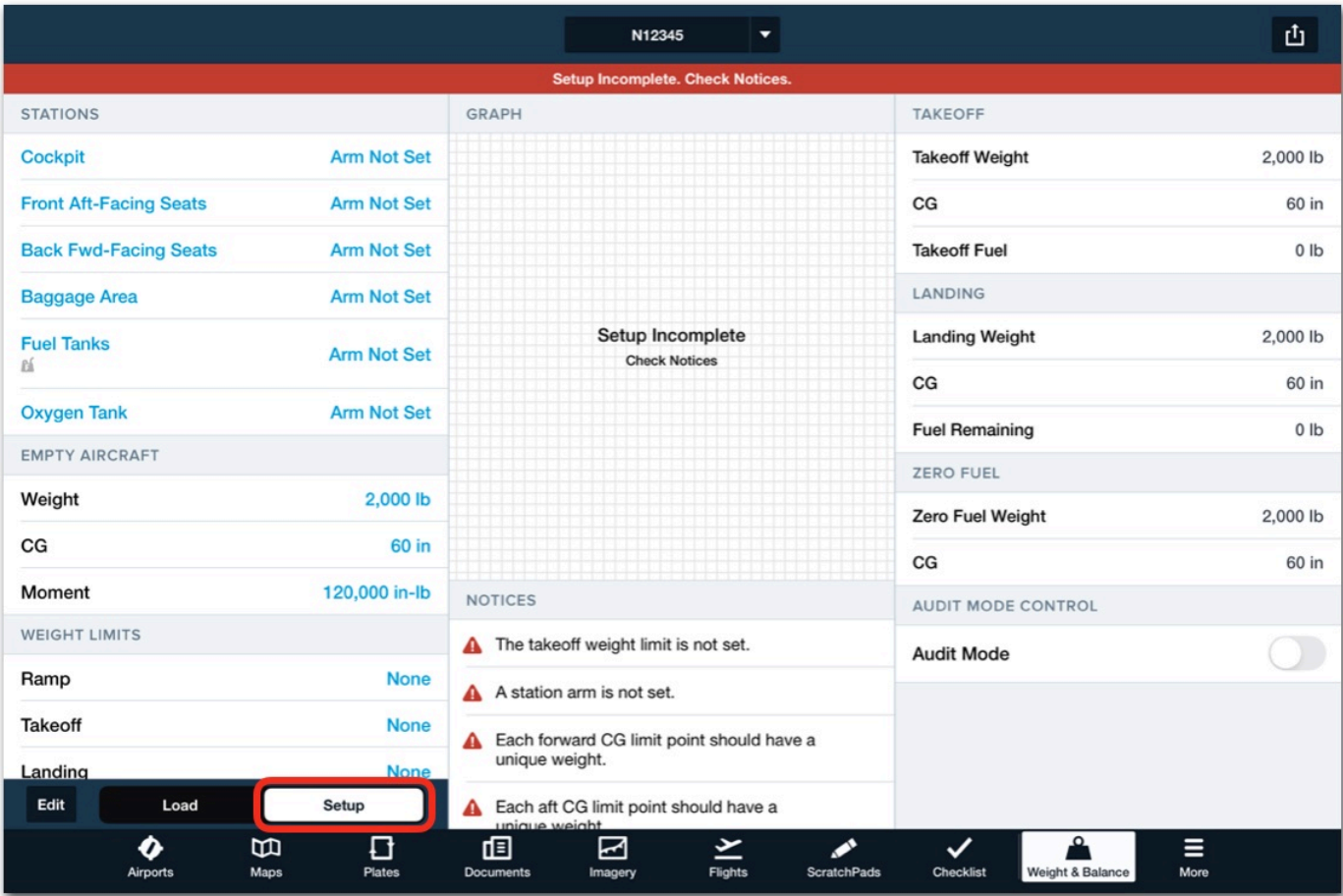


Figure 6-3. Incomplete Setup

6.1.3.1 Limits

To enter limits, tap an entry in the Weight Limits section to open a pop-up. Enter weight limits and tap **Save**. If a limit is not specified in the POH, leave it blank.

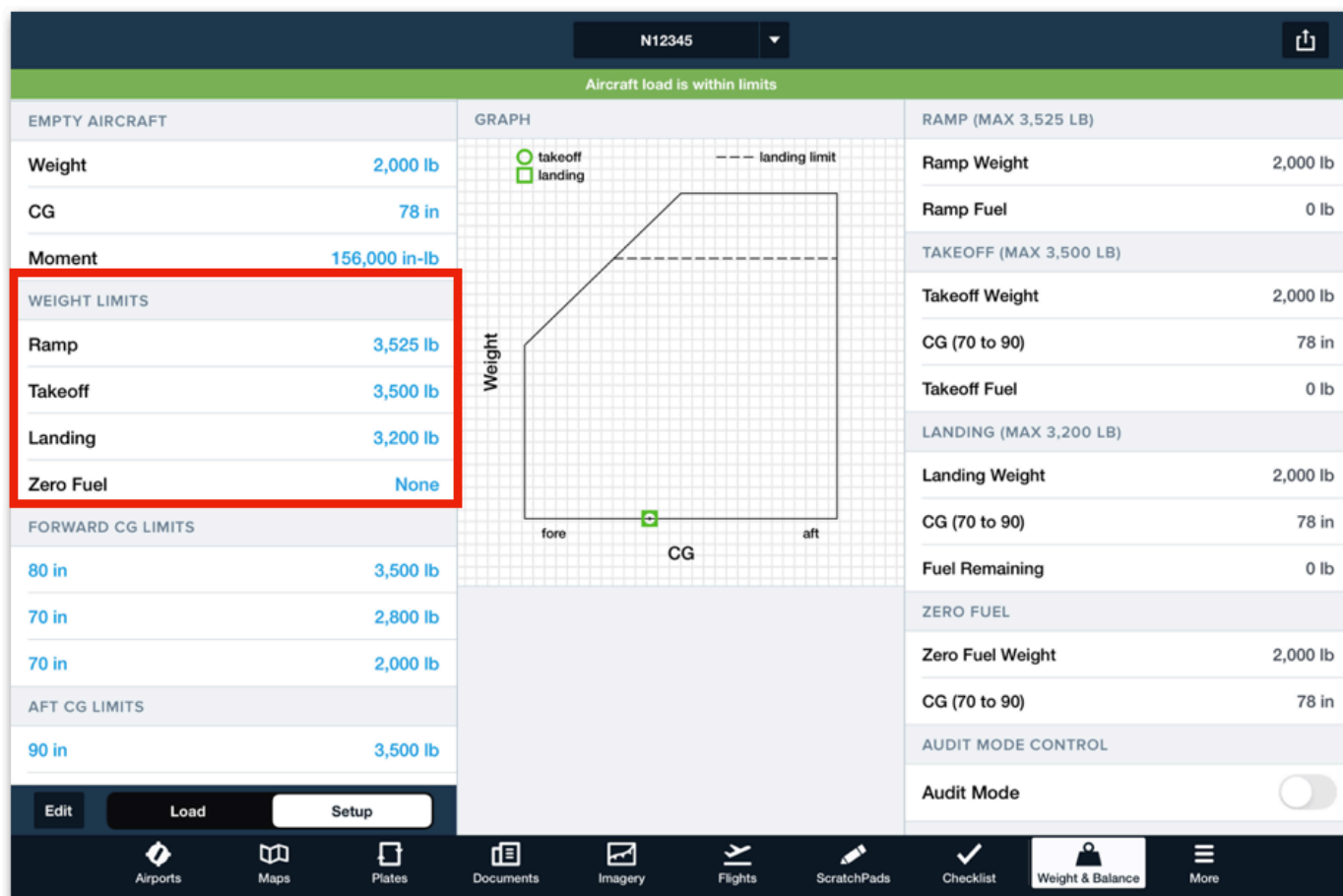


Figure 6-4. Weight Limits

NOTE: Zero Fuel is the maximum weight limit for the aircraft with zero fuel onboard. This limit is uncommon for general aviation aircraft.

6.1.3.2 Stations

Stations (items that can change weight with each flight) include:

- Crew and Passenger (Seats)
- Fuel
- Cargo
- Aircraft Items.

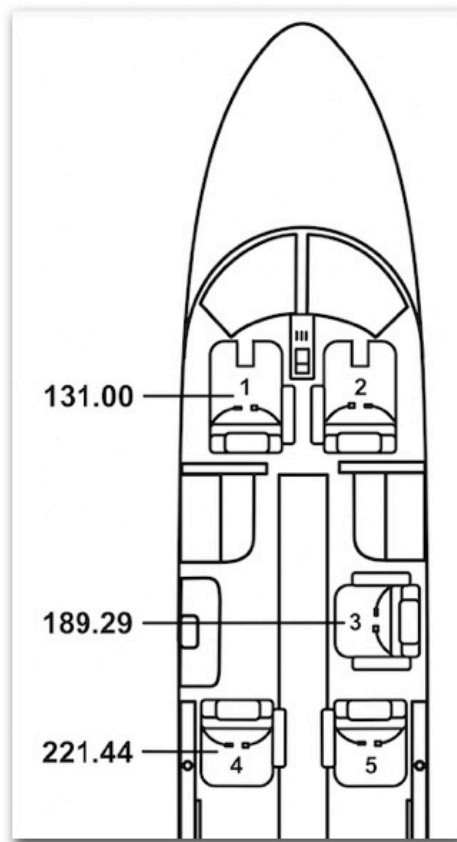


Figure 6-5. Example Stations

Tap each station to input name, arm, and limit. Ensure the station type is correct before tapping **Save**. Tap **Edit** (near the bottom of the screen) and **Add New Station** as needed.

STATIONS	
Cockpit (limit 450 lb)	131 in
Entrance Seat	189.3 in
Front Aft-Facing Seats	270.4 in
Back Fwd-Facing Seats	300 in
Baggage Area	310 in
Fuel Tanks 	270 in

Cancel

Edit

Save

STATION	
Name	Cockpit
Arm (in)	131
Limit (lb)	450
TYPE	
Seats, Baggage, etc. not a fuel station	☒
Fuel, fixed arm use above arm	☐
Fuel, variable arm ignore arm, use fuel moment table	☐

Figure 6-6. Cockpit Seats Arm 131.00

NOTE: Seats in the same row with identical arms require only one station entry. Multiple seats in a row are added in the Load view.

6.1.3.3 Stations (Fuel)

Fuel tank stations with fixed arms are common in many general aviation aircraft. To add a fixed-arm fuel tank station:

- 1 Tap the fuel tank station.
- 2 Enter the fuel tank's **name**, **arm**, and **limit** in the pop-up.
- 3 Select **Fuel, fixed arm** as the station type.
- 4 Tap **Save**.

Cancel

Edit

Save

STATION

Name

Fuel Tanks

Arm (in)

95

Limit (lb)

288

Limit (gal 100LL)

48

TYPE

Seats, Baggage, etc.

not a fuel station

Fuel, fixed arm

use above arm

✓

Fuel, variable arm

ignore arm, use fuel moment table

Figure 6-7. Fuel - Fixed Arm

	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Licensed Empty Weight			
Oil (8 quarts)	15	24.5	368
Pilot and Front Passenger	340	80.5	27370
Passengers, Aft (Rear Seat)	340	118.1	40154
Fuel (48 Gal. Maximum)		95.0	
*Baggage		142.8	
Moment due to Retracting of Landing Gear			819
Total Loaded Airplane			

Figure 6-8. Sample Stations

6.1.3.4 Stations (Fuel - Variable Arm)

Aircraft that do not burn fuel symmetrically use variable fuel arms. These aircraft rely on fuel moment tables that define the moment for a given fuel weight.

To add a variable arm fuel tank station:

- 1 Tap the fuel station and select **Fuel, Variable Arm**.
- 2 Tap **Save**.
- 3 Scroll to the bottom and locate the Fuel Moment Table section.
- 4 Tap **Edit**.
- 5 Tap **Add New Fuel Moment**.
- 6 Enter a fuel weight and its corresponding moment.
- 7 Repeat steps 5-6 until all entries are added.

WING TANK FUEL	
WEIGHT (POUNDS)	MOMENT/100 (INCH-POUNDS)
100	311.72
200	619.45
300	923.80
400	1226.16
500	1527.43
600	1828.57
700	2130.74
800	2433.92
900	2737.96
1000	3042.77
1100	3348.26
1200	3654.36
1300	3961.04
1400	4268.25
1500	4575.96
1600	4884.49
1700	5193.78
1800	5503.69
1900	5814.20
2000	6125.28
2100	6436.95
2200	6749.18
2300	7061.97
2400	7375.33
2500	7689.28
2600	8003.82
2700	8318.98
2800	8634.75
2900	8951.12
3000	9268.10

FUEL MOMENT TABLE

-	100 lb	31,172 in-lb	≡
-	200 lb	61,945 in-lb	≡
-	300 lb	92,380 in-lb	≡
+	Add New Fuel Moment		

Done
Load
Setup

Drag to Rearrange

Fuel Moment Table

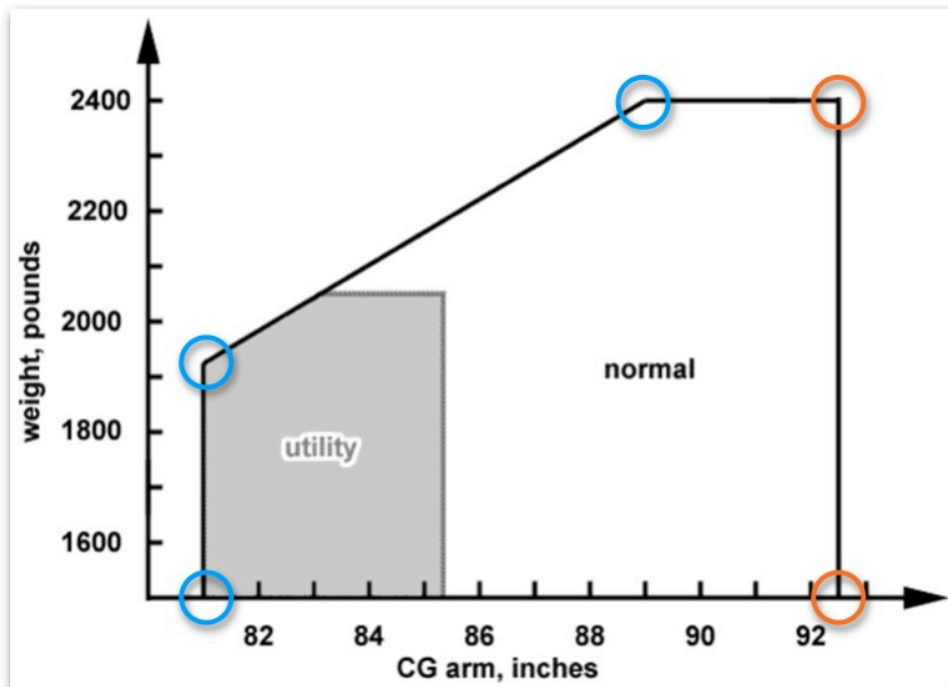
NOTE:

- Enter rows in the order they appear in the source documentation.
- To rearrange rows, tap **Edit** and drag them into the desired order.
- Confirm that moment units are in **inch-pounds**.
- If the source moment values are divided (e.g., **MOMENT/100**), multiply the value by the divisor before entering it in ForeFlight Mobile.

6.1.3.5 CG Limits

The center of gravity (CG) envelope for the aircraft must be defined. These limits are typically found in the Limitations section or as a graph in the Weight and Balance section of the aircraft flight manual.

When using a CG envelope graph, identify each point or "bend" where the envelope changes direction. Each point requires a corresponding weight and arm value.



FORWARD CG LIMITS	
89 in	2,400 lb
81 in	1,920 lb
81 in	1,500 lb

Forward CG Limits

AFT CG LIMITS	
92.5 in	2,400 lb
92.5 in	1,500 lb

Aft CG Limits

6.1.3.6 Entering CG Limits

To enter CG limits:

- 1 Tap either the **Forward CG** or **Aft CG** limit.
- 2 Enter a **Weight** and **Arm**.
- 3 Tap the Forward CG or Aft CG limit and enter a weight and arm.
- 4 Tap **Edit**.
- 5 Tap **Add New Forward (or Aft) Point**.
- 6 Enter the next CG limit and corresponding arm.

- 7 Tap **Save**.
- 8 Repeat steps 4-7 until all points (bends) that define the forward and AFT CG points are entered.

NOTE:

- A CG limit point must be defined at the maximum gross weight (e.g., 2,400 lbs).
- Ensure the CG envelope is based on **weight over arm**. If using a **weight over moment** graph, convert moment to arm by dividing the moment by the corresponding weight.

6.1.3.7 Common Mistakes

A center of gravity envelope that appears distorted, either squished or offset, is often the result of using moment values directly from the Pilot's Operating Handbook (POH) without proper conversion.

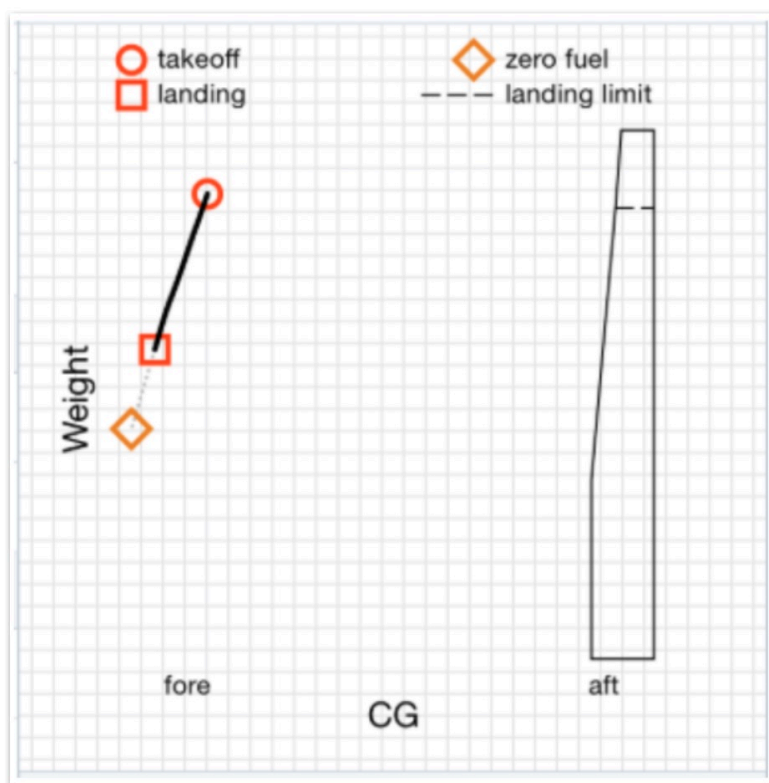


Figure 6-9. Error due to using divided moment values

Many POHs list moment values divided by 100 or 1,000. These values must be converted to inch-pounds before being entered.

To correct this:

- Multiply the POH moment values by 100 or 1,000, as appropriate.
- Enter the converted values into the CG Arms and Limits section.

Ensuring moments are entered in inch-pounds is critical to accurately depicting the aircraft's CG envelope.

An offset at the top of the CG Arm and Limits graph typically indicates a mismatch between weight limits. This presentation occurs when the Takeoff or Ramp weight limit is set lower than the maximum weight defined in the center of gravity moment entries.

Correct this by changing the Takeoff or Ramp weight limit(s) or the Moments.

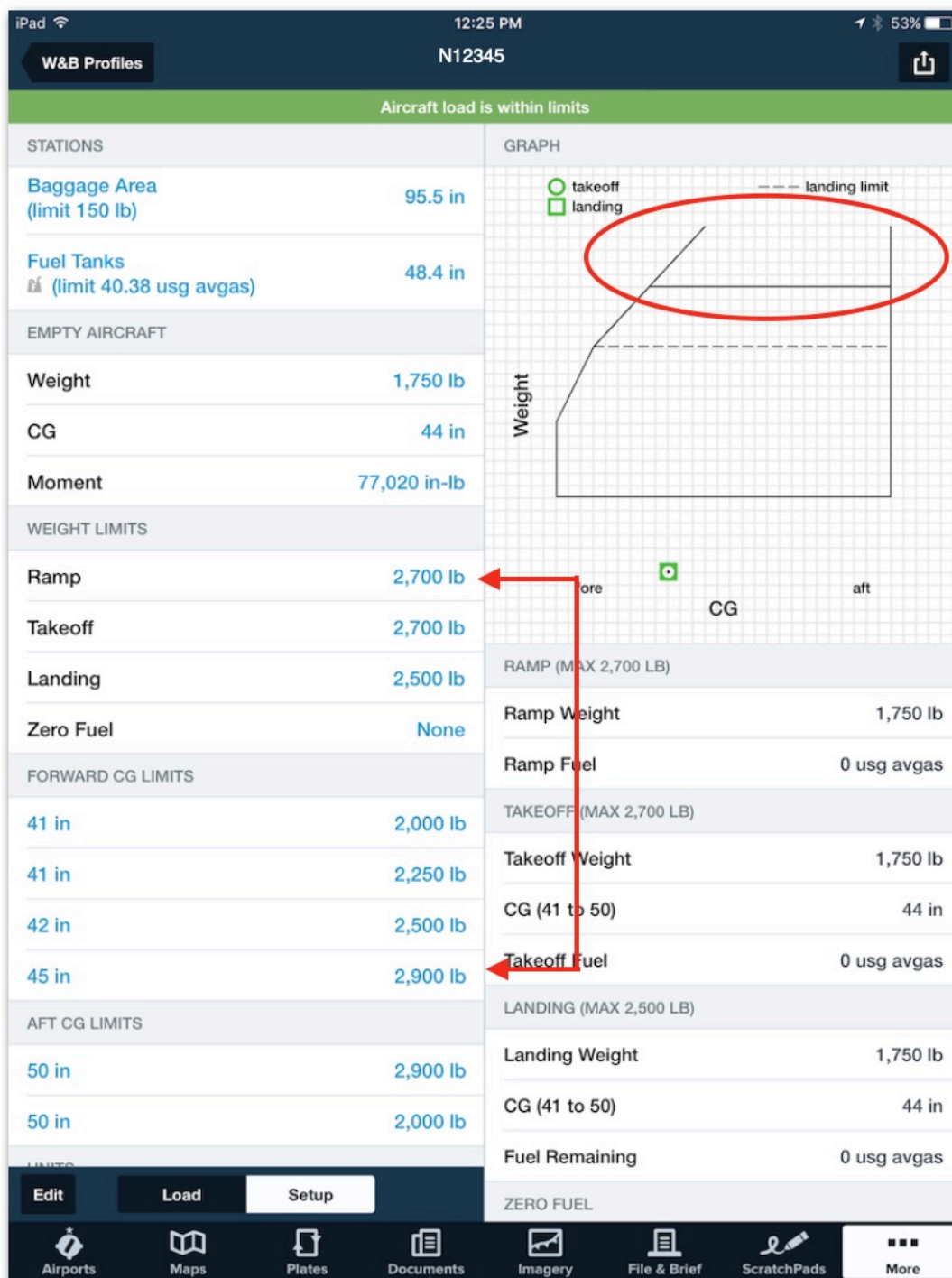


Figure 6-10. CG limits exceed Ramp or Takeoff limits

6.2 Complete Profiles

Once a weight and balance profile is set up, it can be selected from the **profile dropdown** in the upper toolbar.

To make changes to a profile:

- Tap **Setup** to enter edit mode.
- Use **Edit → Delete** or **Edit → Add New Station** to modify station fields.
- To delete individual fields, swipe from **right to left** on the entry.

Profiles can be updated at any time to reflect changes in aircraft configuration or operational needs.

6.3 Calculating Weight and Balance

To perform a weight and balance calculation:

- 1 Select the appropriate profile from the dropdown in the upper toolbar.
- 2 Tap Load at the bottom of the screen.
- 3 On the Load page, tap each station to enter a Weight and Name.
- 4 Tap Save to confirm each entry.

When entering fuel, include the amount planned for both in-flight use and ground operations.

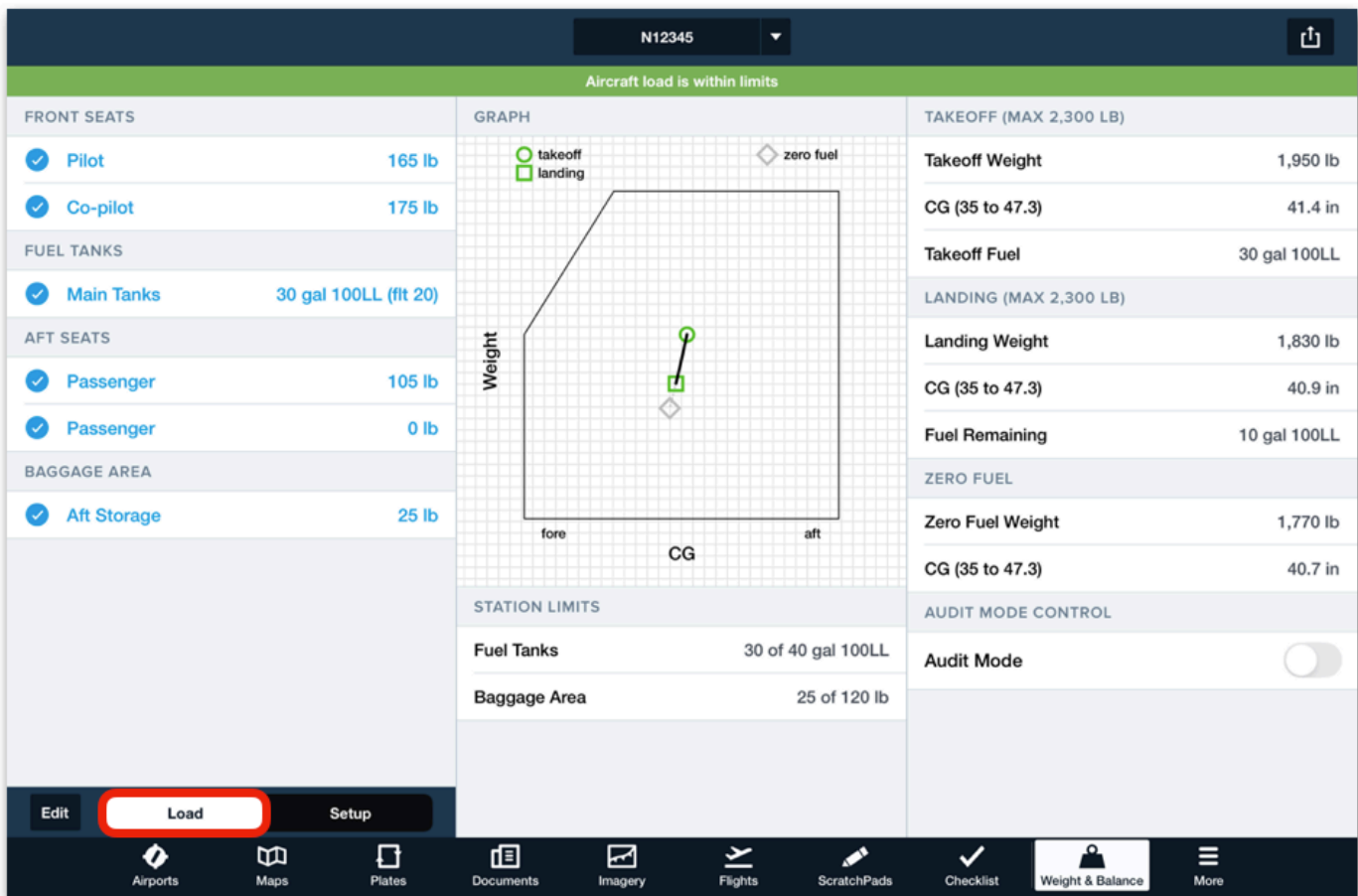


Figure 6-11. Calculating Weight and Balance

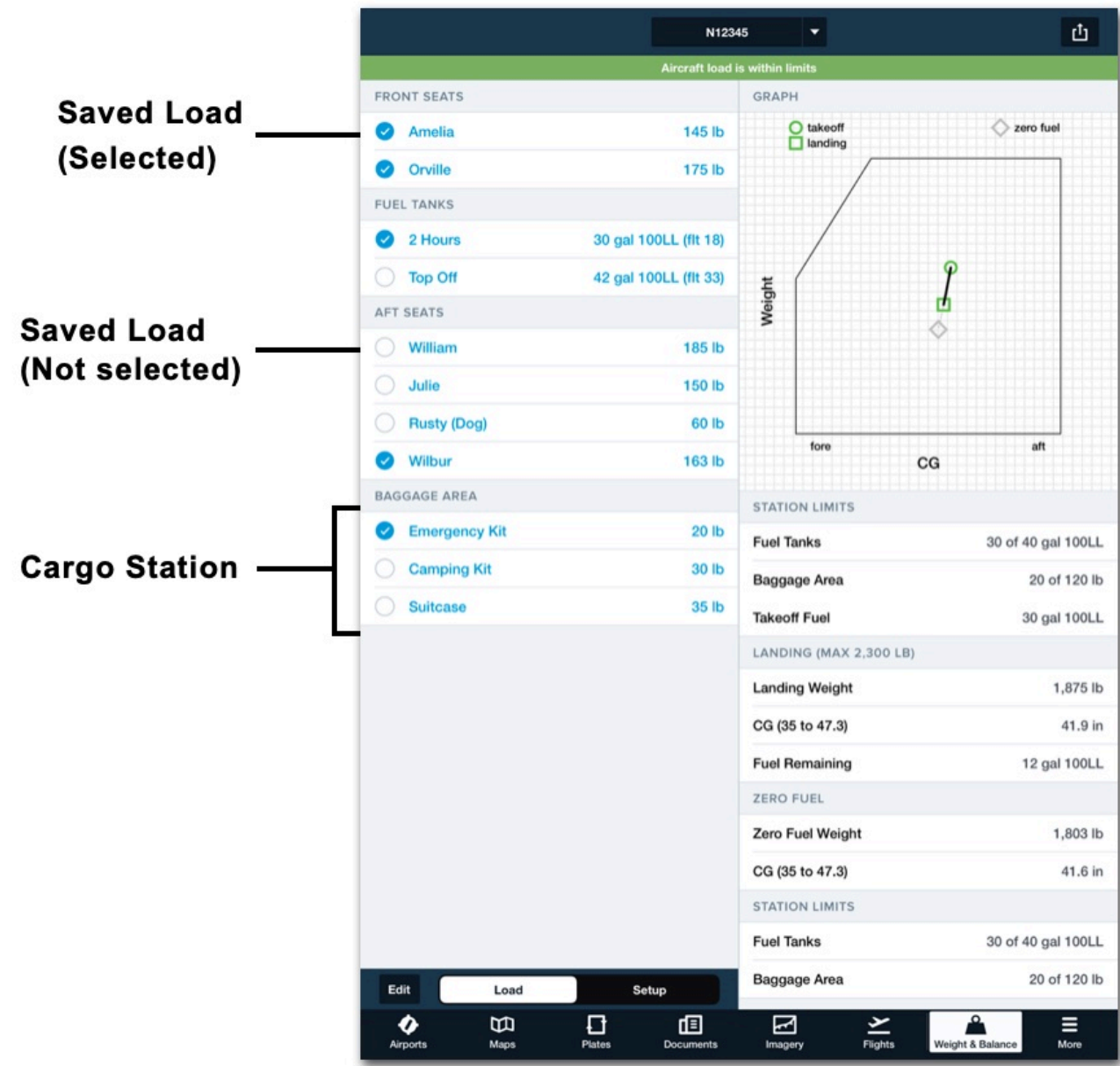
6.3.1 Saved Loads

Saved loads allow frequently used weight entries, such as crew, passengers, fuel, or cargo, to be stored and reused.

To create a saved load:

- 1 Select **Edit** → **Add New Load** within a station.
- 2 Enter the **Name** and **Weight** of the load.
- 3 Tap **Save**.
- 4 Tap **Done** when finished.

NOTE: Each station can store an unlimited number of saved loads. Storing commonly used items streamlines future load planning.



6.3.1.1 Selecting Loads

Only selected loads are included in weight and balance calculations. To include a load, tap the **checkmark** next to the desired load.

By saving all typical crew and cargo configurations, users can quickly select the necessary loads for a given flight.

6.3.1.2 Rearranging Loads

To move a load from one station to another:

6. LEGACY WEIGHT AND BALANCE

- 1 Tap **Edit**.
- 2 Drag the load to the new station.
- 3 Tap **Done** to save the changes.

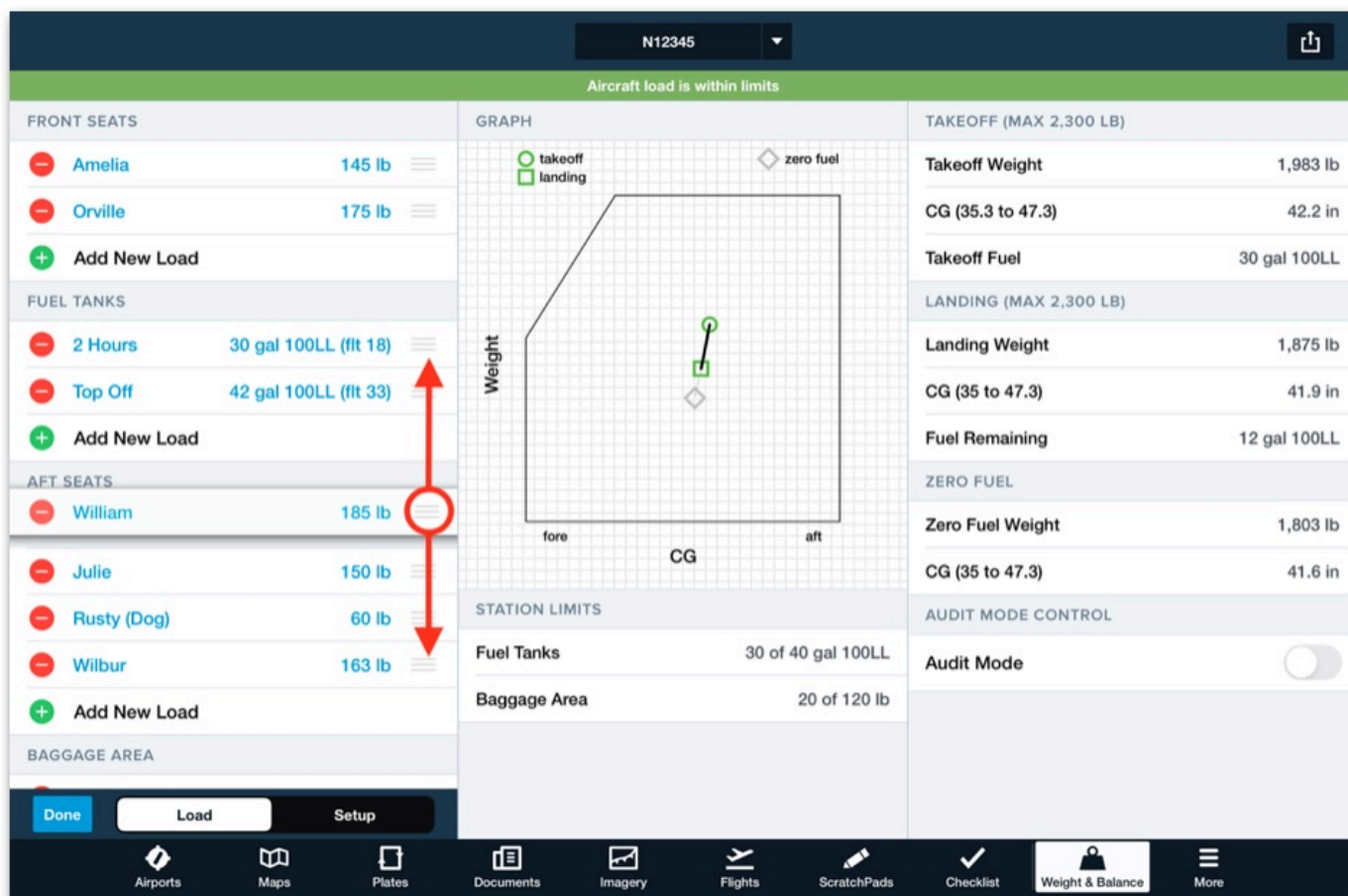


Figure 6-12. Rearranging Loads

6.4 Copying a Profile

Profiles can be copied to simplify setup for multiple aircraft of the same type.

To copy a profile:

- 1 Tap the **share** button.
- 2 Select **Copy** in the upper toolbar.
- 3 Enter a new name for the profile.
- 4 Tap **Save**.

6.5 Sharing a Profile

To share a profile:

- 1 Tap the **share** button in the upper toolbar.
- 2 Select **Mail**.

The recipient must open the email in **Apple Mail** and tap the hyperlinked profile name to import it. Tapping the **LoadingSummary.PDF** opens a read-only PDF version.

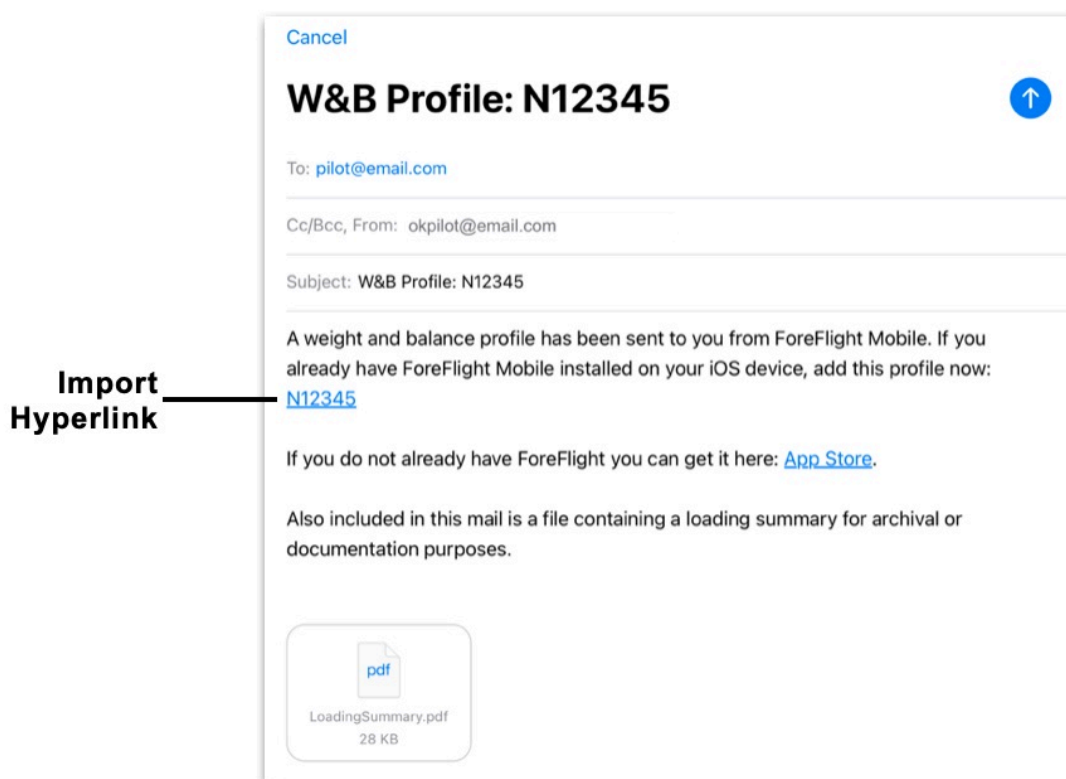


Figure 6-13. Sharing a Profile

6.6 Deleting a Profile

To delete a profile:

- 1 Open the profile list via the dropdown menu in the upper toolbar.
- 2 Tap **Edit**.
- 3 Tap the red circle next to the profile.
- 4 Tap **Delete**.
- 5 Select the Delete confirmation button.

Alternatively, swipe from right to left on the profile name and tap **Delete**. Confirm the deletion.

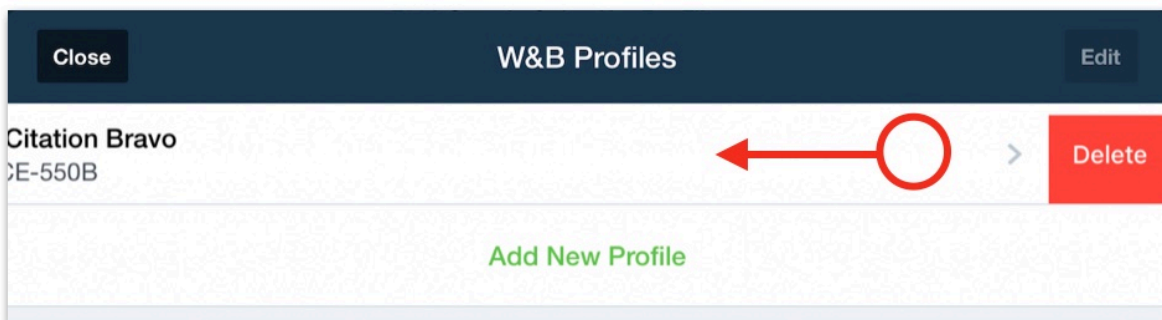


Figure 6-14. Swipe Deleting a Weight and Balance Profile

CHANGE HISTORY

Version	Date	Change Summary
18.1	February 2026	Updated style.
17.7	July 2025	Added lateral center of gravity for helicopter weight and balance profiles.
17.6	June 2025	- Subscription plans renamed. - Condensed Calculating Weight and Balance section.
17.3	May 2025	- Minor fixes. - Updated imagery.
16.8	August 2024	Graphical Weight and Balance added.
15.10	October 2023	Passenger curtailment options added.
15.4	April 2023	- Curtailment options added. - Miscellaneous styling and content updates.
15.3	March 2023	- Ballast fuel added. - Gear retraction moment change added. - Miscellaneous styling and content updates.

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