



EVIAATION ALICE

A FULL ELECTRIC AIRCRAFT



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INTRODUCTION

THE BASICS

The Eviation Alice is a fully electric Aircraft. Therefore there is no fuel. The Alice has 3 batteries, powering 2 engines:

- Battery 1 gives power to the cockpit,
- Battery 2 And 3 are powering the 2 engines.

Electric engines have 2 significant changes comparing to piston engines:

- There is no Idle. The engine will deliver the Amount of thrust you will set it

(Engine power is measured in KW)

- When electric engines spins by an outer Source they become a generator and will charge the batteries.

Example for that is the descent phase. While descending if You set power to 0 you will see the power become negative



SPECIFICATIONS

GENERAL

Length	57 ft	Max Takeoff Weight	18,400 lb
Height	12 ft	Battery Capacity	2x 640kwh
Wingspan	63 ft	Engines	2x magniX 650
Empty Weight	16,000 lb	Power	700 kW (940 hp)

PERFORMANCE

Range	450 nm	Takeoff Distance	2,750 ft
Max Speed	300 kt	Landing Distance	1,800 ft
Never exceed speed	370 kt	High Speed Cruise	Mach 0.63
Stall speed	80 kt	Low Speed Cruise	Mach 0.55
Climb Rate	2,000 ft/m	service ceiling	32,000ft

COMMUTER

Crew	2
Pax	9
Baggage	530 lb

LUXURY

Crew	2
Pax	6
Baggage	1040 lb

CARGO

Crew	2
Cargo	1800 lb
Baggage	260 lb

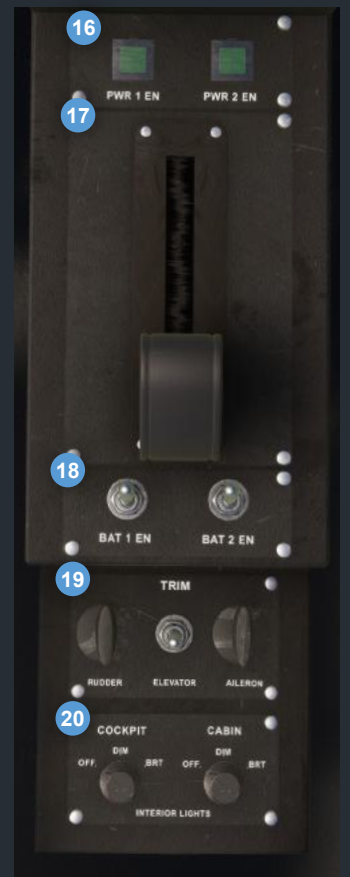


WALK THROUGH

COCKPIT

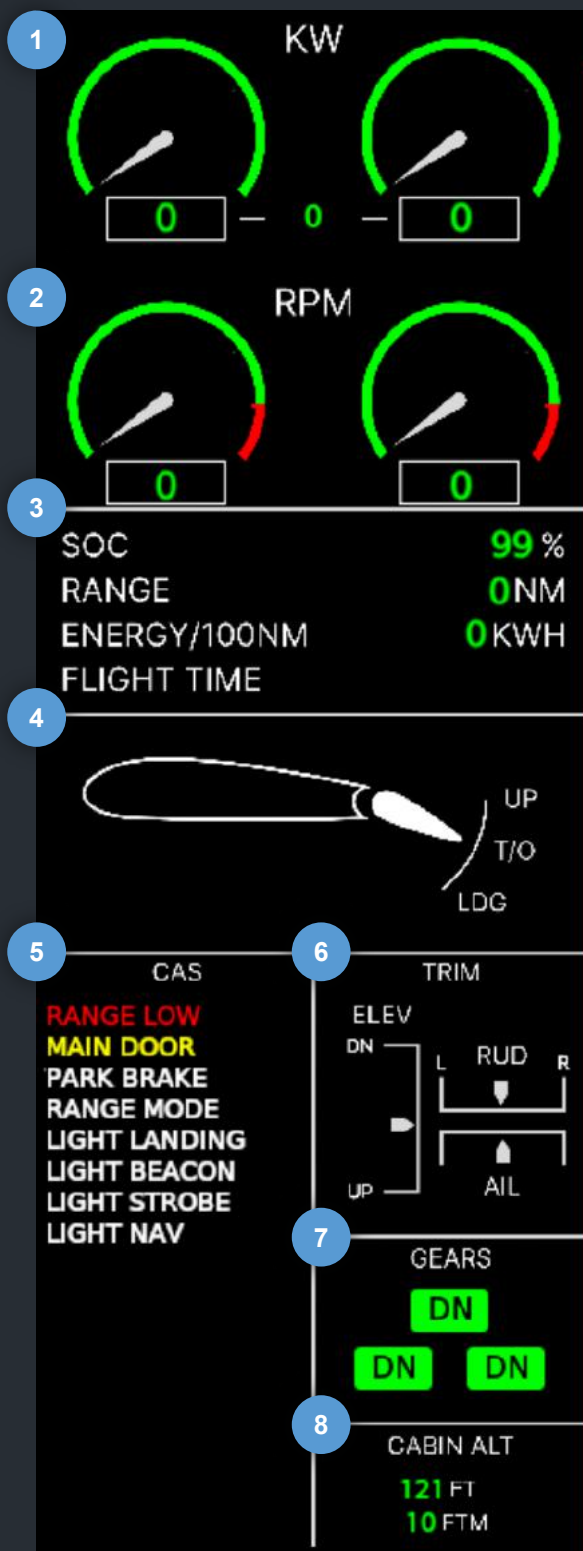


1. Battery Master - Toggles Battery 1
2. Avionics Master
3. Backup Rate Of Climb Indicator
4. Backup Speed Indicator
5. Parking Brakes
6. Exterior Lighting Panel
7. Autopilot Panel
8. Thrust Mode Selector - Taxi (300kw) → Range (500kw) → Power (700kw)
9. G3000 Avionics
10. Landing Gear Lever
11. Flaps Lever
12. Air Conditioner Panel
13. Pressurization Panel
14. Cabin Rate Of Climb Indicator
15. Cabin Altitude Indicator



WALK THROUGH

G3000 MFD Instruments



1. Engine Power in kw
2. Propeller RPM
3. Electrical batteries data
4. Flaps position
5. CAS (Crew Awareness System)
6. Aircraft Trims
7. Gears State
8. Cabin Altitude and Cabin Climb Rate

THROTTLE ERROR When you try to start the engines on the ground and the throttle lever is not set to idle

BAT 2-3 LOW When battery 2 or 3 are less then 15 percent

RANGE LOW When estimated range is less then 50nm

CABIN ALT When cabin altatude is above 10,000ft

BAT 2 OFF When battery 2 is off

BAT 3 OFF When battery 3 is off

MAIN DOOR When the main door is open

BAGGAGE DOOR When the baggage door is open

CHARGING DOOR When the charging door is open

PARK BRAKE When parking brakes are on

POWER MODE When thrust mode is set to Power

TAXI MODE When thrust mode is set to Taxi

RANGE MODE When thrust mode is set to Range

AC ON When the air conditioner is on

LIGHT TAXI When the taxi light is on

LIGHT LANDING When the landing light is on

LIGHT BEACON When the beacon light is on

LIGHT STROBE When the strobe light is on

LIGHT NAV When the nav light is on

WALK THROUGH

G3000 Synoptics Pages

Open Synoptics Pages



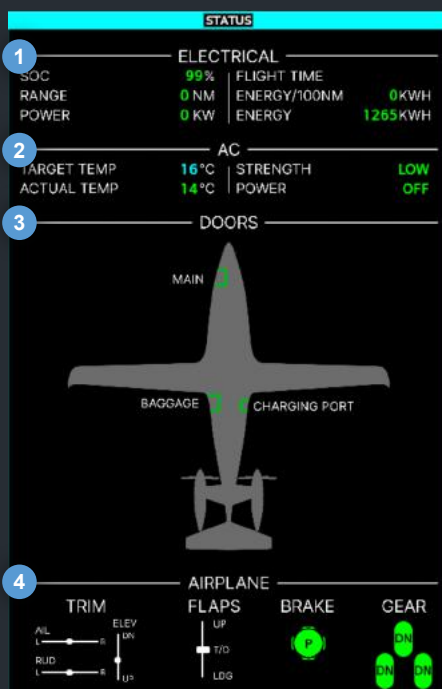
All airplane systems can be monitored from the MFD synoptics pages.

There are a total of 5 custom pages that can be displayed in both the MFD and PFD.

To open any synoptics page follow those steps:

- Pane to the desired panel you want the page to be displayed at
- In the GTC screen select MFD → Aircraft Systems → Select desired panel

STATUS



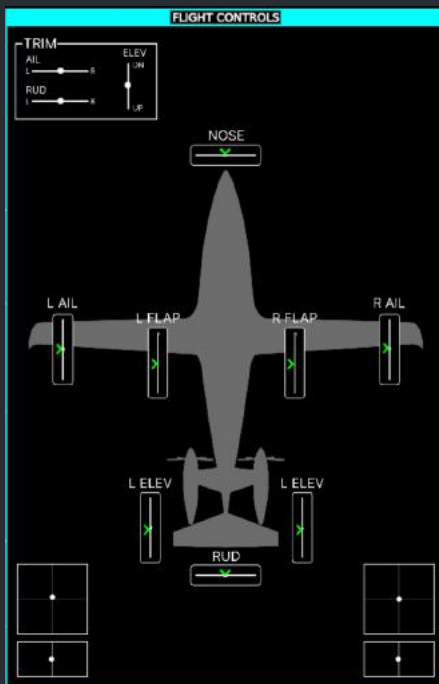
This page will give you general information about the aircraft.

1. **Electrical** - includes the most important information about the electrical system
2. **AC** - gives information about the temperature inside the airplane and air Conditioning system
3. **Doors** - an illustration of all the doors of the aircraft and their status
4. **Airplane** - displays information about main physical systems of the aircraft

WALK THROUGH

G3000 Synoptics Pages

FLIGHT CONTROLS

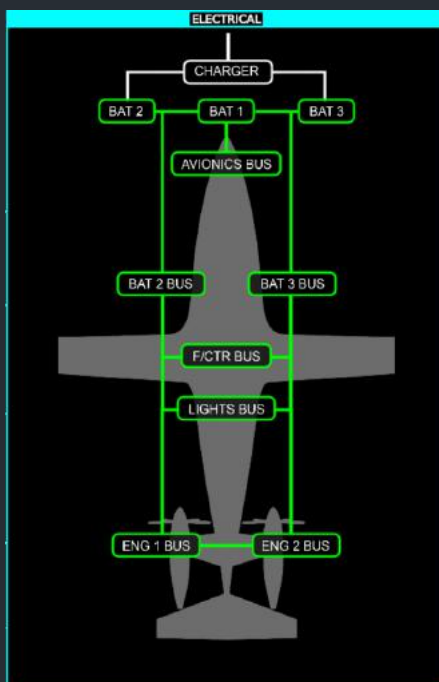


This page contains all the information about all moving surfaces that control the aircraft.

Including:

- Ailerons
- Elevators
- Rudder
- Flaps
- Nose Steering
- Trim
- Joystick inputs

ELECTRICAL



This page is a diagram of the electrical systems status and connectivity

WALK THROUGH

G3000 Synoptics Pages

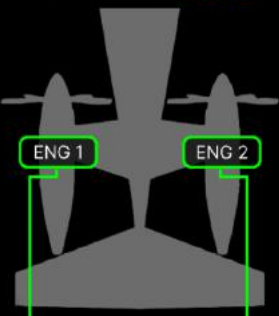
BATTERIES

BATTERIES			
1 AIRPLANE			
STATE	DISCHARGING	FLIGHT TIME	
SOC	99%	RANGE	0 NM
ENERGY	1265 KWH	VOLTAGE	799 V
BAT TEMPS	16°C	CURRENT	0 A
LAST CHARGED	53m		
BAT 1			
MASTER	ON	LIFE TIME	55h 31m
STATE	CHARGING	HEALTH	GOOD
SOC	100%	LAST CHARGED	0m
ENERGY	6.2 KWH	VOLTAGE	25 V
TEMP	15°C	CURRENT	209 A
BAT 2			
MASTER	ON	FLIGHT TIME	45h 19m
STATE	DISCHARGING	HEALTH	GOOD
SOC	99%	LAST CHARGED	53m
ENERGY	632 KWH	VOLTAGE	799 V
TEMP	17°C	CURRENT	0 A
RANGE	0 NM		
BAT 3			
MASTER	ON	FLIGHT TIME	44h 54m
STATE	DISCHARGING	HEALTH	GOOD
SOC	99%	LAST CHARGED	53m
ENERGY	632 KWH	VOLTAGE	799 V
TEMP	17°C	CURRENT	0 A
RANGE	0 NM		

This page contains all the information about the 3 batteries that are on the aircraft.

1. Airplane - General battery information combining battery 2 & 3
2. BAT 1/2/3 - Individual full battery information

ENGINES

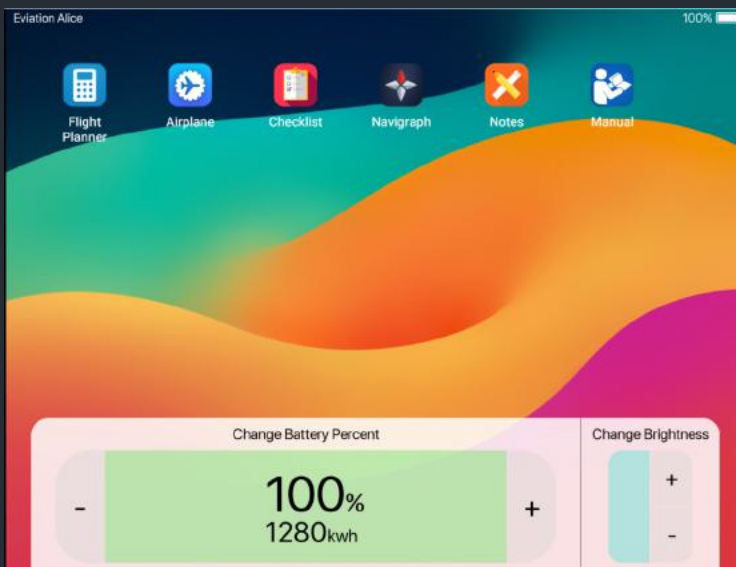
ENGINES			
THRUST MODE: RANGE			
			
ENG 1		ENG 2	
STATE	ON	STATE	ON
POWER	0 KW	POWER	0 KW
TORQUE	-4 Nm	TORQUE	-4 Nm
PROP RPM	-0 RPM	PROP RPM	-0 RPM
LIFE TIME	45h 28m	LIFE TIME	45h 3m

This page contains all the information about the 2 engines

WALK THROUGH

EFB

Home Page & Settings



The home page is the first screen you will see after unlocking the EFB. It displays all the available apps and a settings popup.

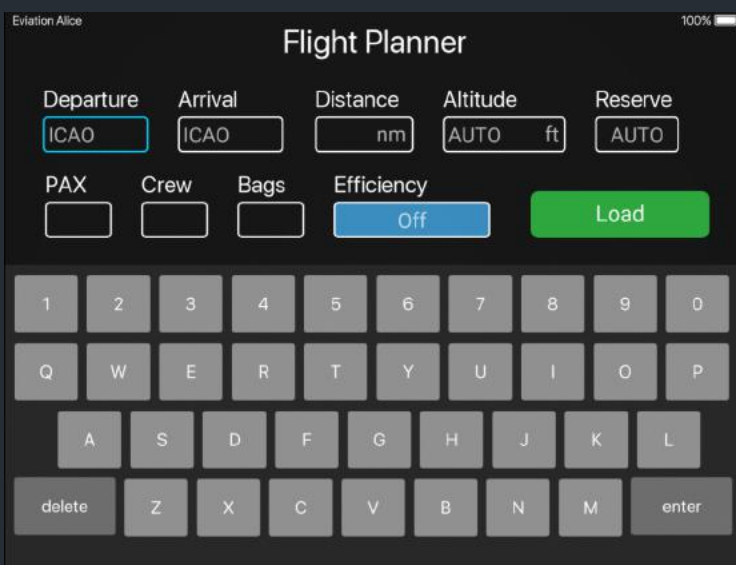
Apps:

- Flight Planner: Calculate the battery and power performance for your flight
- Airplane: All ground equipment including a working Charger
- Checklist
- Navigraph
- Notes

Settings:

Includes the EFB brightness control and the ability to control the aircraft battery

Flight Planner - Page 1



The first page of the flight planner app is the planning Page.

Input Fields:

input fields marked with * must be filled to load the flight

- Departure - Airport ICAO
- Arrival - Airport ICAO
- Distance* - Flight Plan Length
- Altitude - Automatic if left empty
- Reserve - The minimum battery percent after flight allowed (default - 25%)
- Pax* - Passangers on board (not including crew)
- Crew* - Pilots on board
- Bags* - Total amount of bags in the baggage compartment
- Efficiency - when on, the app will prefer landing with higher battery percent then the time in flight
- Load - Calculates the battery usage and performance and opens page 2

WALK THROUGH

EFB

Flight Planner - Page 2



This page will show you everything you need to know about your flight

1. Your battery usage for the flight
2. Total Flight Time
3. Cruise Altitude
4. Flight Length
5. Total souls on board
6. Total Cargo
7. Total Weight
8. Rate of climb to cruise alt
9. Rate of descent from cruise alt
10. Power setting for climb phase
11. Power Setting for cruise phase
12. Power setting for descent phase
13. Climb phase time and distance
14. Battery left at top of climb
15. Cruise time and distance
16. Battery Left at top of descent
17. Descent time and distance

WALK THROUGH

EFB

Airplane & Charging



This app lets you control and go to all doors and ground equipment

Charging:

After calling the charger and going to it

1. Charging Time - The amount of time the aircraft is being charged
2. Energy Charged - The amount of energy (kwh) the aircraft charged
3. State Of Charge - The current battery percent
4. Remaining Time - The time left until full battery
5. Charging Cost - Simulated charging cost
6. Voltage - Charging voltage
7. Ampere - Charging ampere
8. Charging Power - Lets you change the charger power
9. Speed Scaler - Lets you change the charger speed
10. Charger Plug - Connect to the aircraft to start charging



WALK THROUGH

EFB

Checklist

Start Up	Taxi	Take Off	Climb	Cruise	Descend	Landing	Shut Down	Charging
☐ Chocks ----- Placed								
☐ Flight Planner App ----- Load								
☐ Weights ----- Set								
☐ Battery ----- On								
☐ Avionics ----- On								
☐ Batteries Synoptics Page --- Open								
☐ BAT 1 & BAT 2 Percent ---- Check								
☐ AC ----- As Needed								
☐ Avionics ----- Configured								
☐ Autopilot ----- Configured								
☐ Pressurization ----- Set Cruise Alt								
☐ Beacon, Nav, A/Coll Lights ---- On								
☐ BAT 1 & 2 EN ----- On								
☐ PWR 1 & 2 EN ----- On								
☐ State Of Charge ----- Check								

This app walk you through the checklist in each phase of the flight.

The full checklist can be found in page #

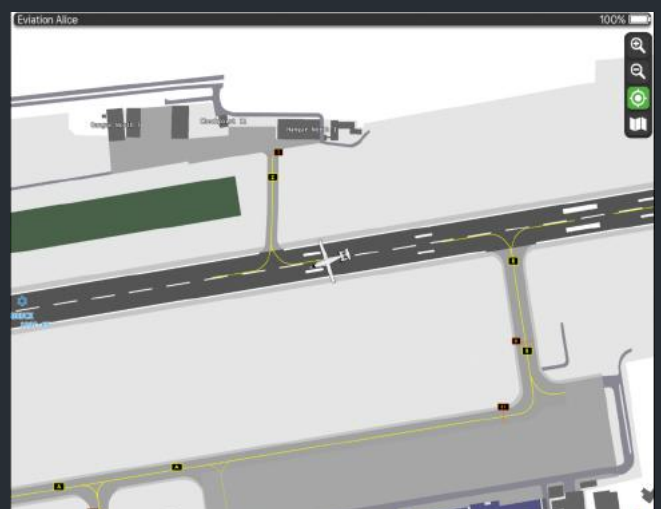
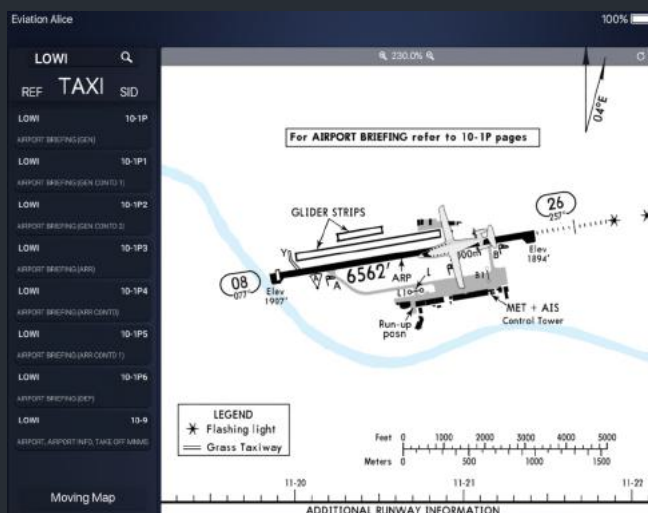
A more detailed checklist can be found in page #

Navigraph

This app lets you use your navigraph subscription to see in flight charts and use the navigraph moving map.

To log in you will need to press the "Link Account" button and scan the QR code with your mobile device, then you'll be redirected to the navigraph website and it will ask you to log it. After logging in the EFB will redirect you to the main app pages in a couple of seconds.

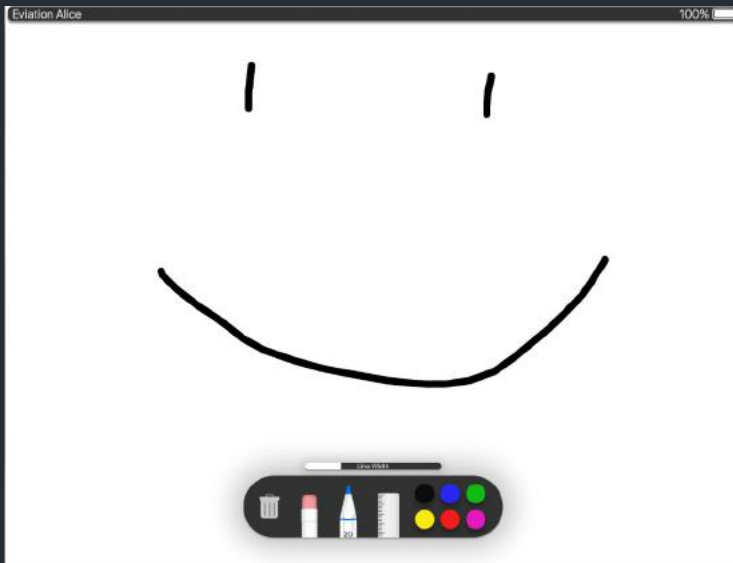
Please note that you will need to log in everytime you spawn with the Alice



WALK THROUGH

EFB

Notes



This app is a simple but useful notes app that lets you draw and write anything you want. You could use it to note ATC comments or just as a fun drawing app

WALK THROUGH

EFB

Positioning

1



1. Default position, Left side of windsheild
2. Middle of cockpit above the the panel
3. Stored on the left bottom side of the cockpit
4. On top of both tables in the luxury variantt
5. In front of both seats in the second line in the commuter variant

2



3



4



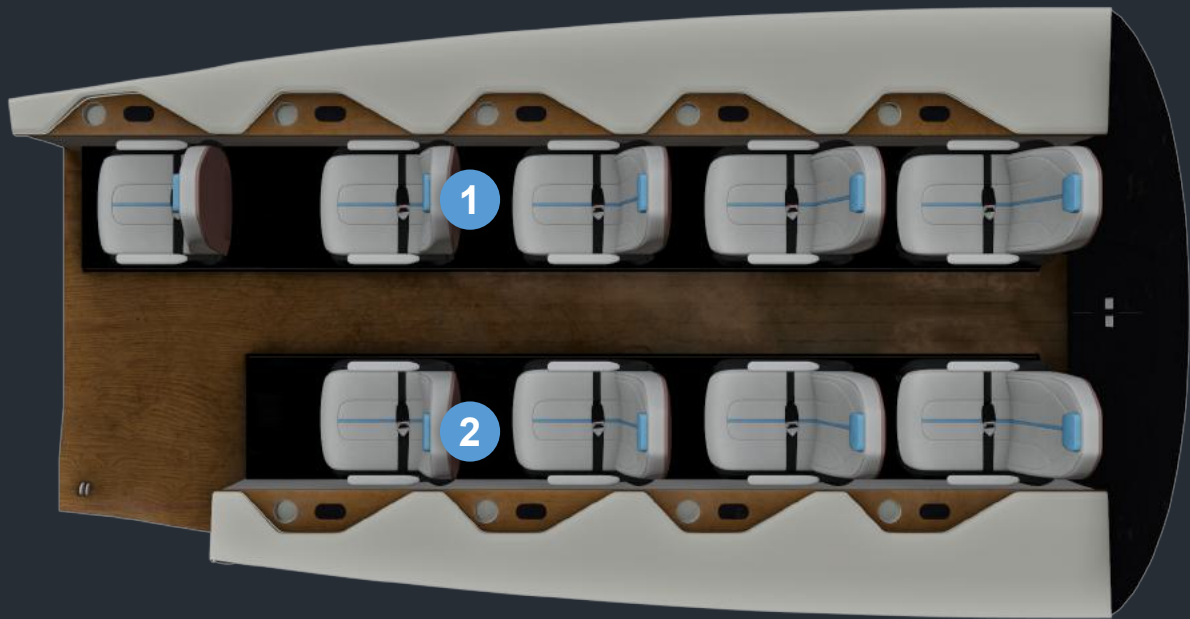
5



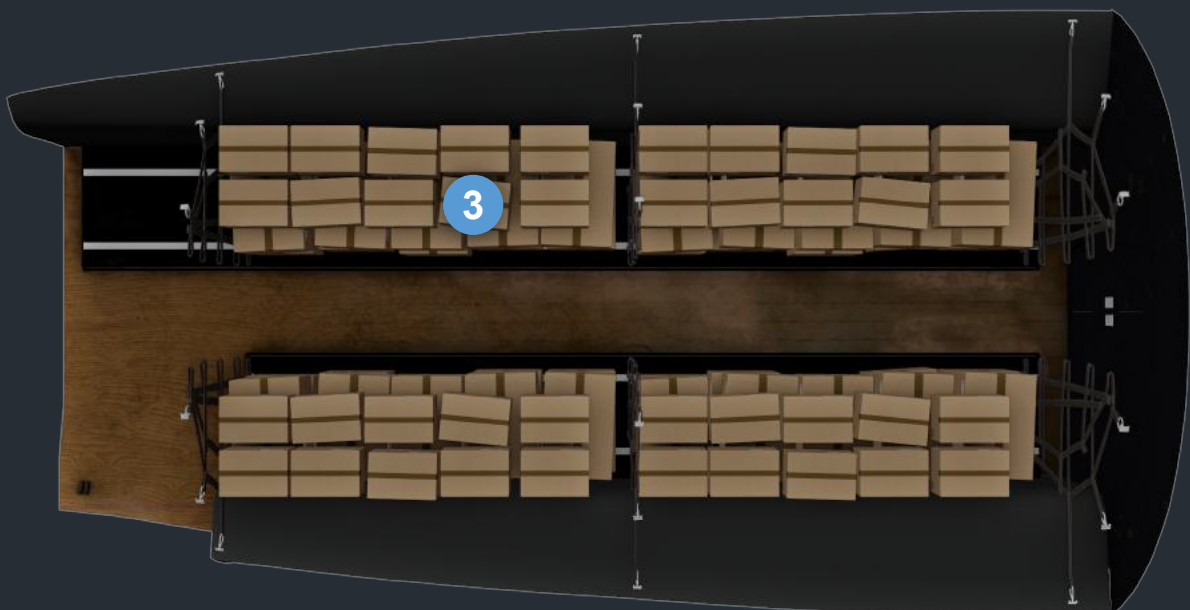
WALK THROUGH

INTERIORS

Commuter



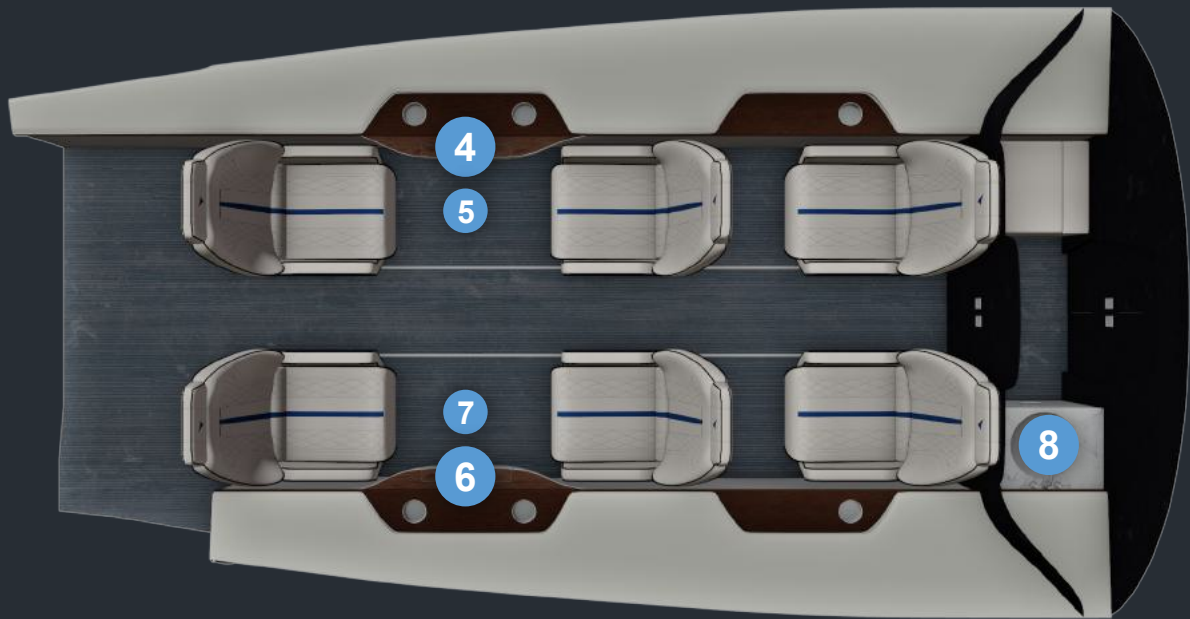
Cargo



WALK THROUGH

INTERIORS

Luxury



Commuter

1. Move EFB to right seat clickspot
2. Move EFB to left seat clickspot

Cargo

3. Just a random box?

Luxury

4. Open/Close right table
5. Move EFB to right table clickspot
6. Open/Close left table
7. Move EFB to left table clickspot
8. Fridge with interactable food and drinks

CHECKLIST

START UP

Chocks	Placed
Flight Planner App	Load
Weights	Set
Battery	On
Avionics	On
Batteries Synoptics Page	Open
BAT 2 & BAT 3 Percent	Check
AC	As Needed
Avionics	Configured
Pressurization	Set Cruise Alt
Beacon, Nav, A/Coll Lights	On
BAT 2 & 3 EN	On
PWR 1 & 2 EN	On
State Of Charge	Check

TAXI

Chocks	Remove
Thrust Mode	Taxi
Taxi Light	On
Flaps	T/O

TAKE OFF

Taxi Light	Off
Landing Lights	On
Thrust Mode	As Required
Power	T/O

CHECKLIST

CLIMB

Gears Up
Flaps Up
Power As Required
State Of Charge Monitor
After 10,000ft
Landing Lights Off
Transition Level
Baro Standard

CRUISE

Thrust Mode As Required
Power As Required
State Of Charge Monitor

DESCEND

Thrust Mode As Required
Power As Required
State Of Charge Monitor
Transition Level
Baro Set QNH
After 10,000ft
Landing Lights Off

CHECKLIST

LANDING

Gears	Down
Flaps	Down
After Landing	
Thrust Mode	Taxi
Flaps	Up
Landing Lights	Off
A/Coll Lights	Off
Taxi Lights	On

SHUT DOWN

PWR 1 & 2 EN	Off
BAT 2 & 3 EN	Off
Chocks	Place
All Lights	Off
Avionics	Off
Battery	Off

CHARGING

Airplane App	Call & Go to Charger
Charging Power	Set
Speed Scaler	Set
Charging Plug	Connect

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