

Cockspur PH100



User Manual version 1.0

Cockspur PH100 User Agreement

This User Agreement ("Agreement") is entered into by and between the user ("You" or "User") and Cockspur, the developer of the PH100 Add-On for Microsoft Flight Simulator. By installing, accessing, or using the PH100 Add-On ("Software"), you agree to be bound by the terms and conditions of this Agreement.

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This Agreement shall be governed by and construed in accordance with the laws of [Jurisdiction], without regard to its conflict of law principles.

9. Changes to the Agreement:

Cockspur reserves the right to modify this Agreement at any time. Any such modifications will be effective immediately upon posting. Your continued use of the Software constitutes acceptance of the modified Agreement.

By installing or using the PH100 Add-On, you acknowledge that you have read and understand this Agreement and agree to be bound by its terms and conditions. If you do not agree with the terms of this Agreement, you should not install or use the Software.

PH100 Add-On User Manual for Microsoft Flight Simulator

Welcome to the next level of realism in Microsoft Flight Simulator with the PH100 Add-On! Immerse yourself in the world of aviation as we bring you an extraordinary extension that perfectly replicates the iconic Phenom 100. This user manual is your passport to an enhanced virtual flying experience, guiding you through the intricacies of the PH100 Add-On and maximizing your enjoyment of Microsoft Flight Simulator.

About PH100 Add-On:

The PH100 Add-On is a finely crafted expansion designed exclusively for Microsoft Flight Simulator, providing a meticulous representation of the Embraer Phenom 100. This addition to your simulator introduces a new dimension of authenticity, featuring accurate modelling of the aircraft's exterior, interior, and performance characteristics.

Key Features:

Realistic Exterior: From the sleek lines to the intricate details, the PH100 Add-On faithfully recreates the exterior of the Phenom 100, allowing you to admire its beauty from every angle.

Immersive Cockpit: Step into the highly detailed cockpit and experience the thrill of flying a Phenom 100 with precision. Every switch, instrument, and control has been replicated to deliver an authentic pilot experience.

Dynamic Systems: Explore the intricacies of the Phenom 100's systems, from avionics to engine management. The PH100 Add-On ensures that you can engage with and master the aircraft's various systems as if you were in the real cockpit.

Flight Dynamics: Feel the responsiveness and nuances of the aircraft as it reacts to your inputs and environmental conditions. The PH100 Add-On provides an immersive flight experience that mirrors the real-world performance of the Phenom 100.

Whether you're a seasoned virtual aviator or a newcomer to Microsoft Flight Simulator, this user manual is your comprehensive guide to unlocking the full potential of the PH100 Add-On. Follow the step-by-step instructions, tips, and insights to ensure a seamless integration and an unforgettable flying experience.

Embark on an unparalleled journey with the PH100 Add-On for Microsoft Flight Simulator. This user manual is your companion for exploring the skies with the Phenom 100 – a virtual adventure awaits you! Safe travels and enjoy the flight!

Thank you to our Beta team!

AeroFlyr

Alexander

AtisEcho

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OMGEDSON

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MikeAudio

Credits

Seb: 3D models, Textures, Programming, Integration, Avionics

Marc: Programming, WASM, Avionics

Arch: Community Manager, Beta tester, GPU enthusiast

Matt: Detail Textures

Mets: Exterior Lights

PH100 Aircraft Overview

The PH100, a remarkable light business jet, is an embodiment of cutting-edge technology and sleek design. Manufactured by Embraer, this aircraft stands out as a testament to the pursuit of excellence in the world of aviation. With its distinctive features and impressive performance, the PH100 is a coveted addition to the realm of private and executive air travel.

Design Elegance: The PH100 boasts a visually stunning design, characterized by its streamlined fuselage, swept wings, and a distinctive T-tail configuration. Its aesthetic appeal is not just about style; it also contributes to the aircraft's aerodynamic efficiency.

Spacious Cabin: Step inside the PH100, and you'll be greeted by a spacious and luxuriously appointed cabin. The intelligently designed interior provides ample room for passengers to move comfortably, fostering a sense of openness and sophistication.

Avionics Excellence: The PH100 is equipped with state-of-the-art avionics, featuring a modern glass cockpit. Pilots benefit from an intuitive interface, advanced navigation systems, and a comprehensive suite of avionics tools, ensuring a seamless and safe flying experience.

Performance Prowess: Powered by efficient Pratt & Whitney PW617F-E engines, the PH100 demonstrates impressive performance capabilities. It achieves a remarkable balance of speed, range, and fuel efficiency, making it an ideal choice for short to medium-haul flights.

Advanced Systems: The PH100 integrates cutting-edge systems, including digital fly-by-wire technology, to enhance flight control precision and stability. This ensures a responsive and enjoyable flying experience for both pilots and passengers.

Quiet and Comfortable: Emphasizing passenger comfort, the PH100 features a remarkably quiet cabin. The reduced noise levels contribute to a tranquil and enjoyable environment, allowing passengers to conduct business, relax, or simply appreciate the journey.

Versatility: With its ability to operate from shorter runways, the PH100 offers unparalleled versatility. This allows access to a broader range of airports, providing greater flexibility for travel itineraries.



PH100 Flight Deck



The cockpit of the PH100, is a sleek and modern marvel designed for both functionality and comfort. As you enter, you'll notice the spacious and well-organized layout that reflects the aircraft's commitment to efficiency.

The cockpit features state-of-the-art avionics and a glass cockpit design, providing the pilots with a comprehensive and intuitive interface. The primary flight displays (PFDs) and multifunctional displays (MFDs) are seamlessly integrated, offering a wealth of information at the pilot's fingertips. The large, high-resolution screens ensure clear visibility and easy interpretation of critical data, enhancing situational awareness.

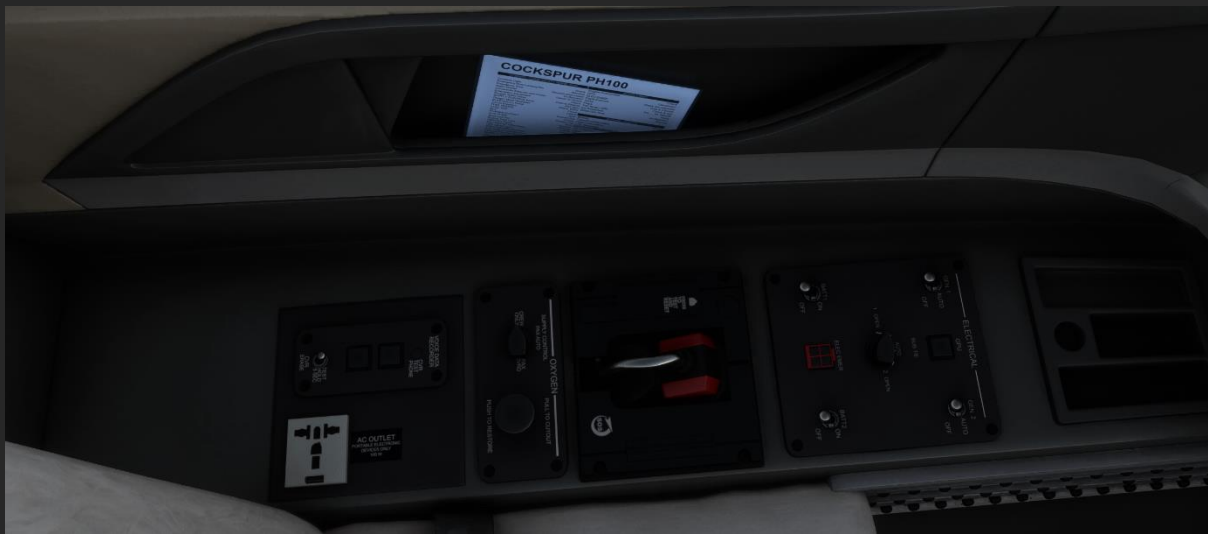
The control panels are ergonomically arranged, with tactile and responsive buttons and switches for various functions. The advanced avionics suite includes communication, navigation, and surveillance systems, as well as autopilot capabilities, allowing for precise and hands-on control when needed.

Comfort is a key feature in the PH100 cockpit, with well-padded and adjustable seats ensuring that pilots can maintain focus during long flights. The cockpit is designed to minimize fatigue and provide a pleasant working environment, contributing to the overall flying experience.

The large windows in the cockpit offer panoramic views, allowing pilots to enjoy the scenery while maintaining a vigilant watch on the surroundings. The lighting system is adjustable, providing optimal illumination for different phases of flight.

In summary, the PH100 cockpit blends cutting-edge technology with ergonomic design, creating a space where pilots can efficiently operate the aircraft while enjoying a comfortable and visually appealing environment.

Left Side. To access equipment selection and checklist, click on the checklist located in the right-side pocket.



Left Front



Centre Front



Right Front



Centre Front Upper



Overhead Lighting Controls



COCKSPUR PH100

COCKPIT / CABIN SAFETY INSPECTION		AFTER START	
Courtesy Light	Check	Engine Instruments	Check
Emergency Door Locking Pin	Remove	GPU	Disconnect
Emergency Door	Secured and Locked	ELEC EMER	Check (as required)
Water Barrier	As Required	Flight Controls	Free & Correct
Documents Manuals and Charts	Check On Board	Trims	Check & Set
Emergency Equipment	Check	Flaps	Set ___ for Takeoff
Oxygen Bottle Valve	Push to Restore	T/O Temp / ATR	Verify
SUPPLY CONTROL Knob	PAX Auto	Ice Protection	As Required
Oxygen Mask Regulator	Check 100%	Block Out Time	Record
ELECTRICAL Panel	Check	BEFORE TAKEOFF	
Circuit Breakers	Check	Brakes	Check
FUEL PUMPS	Auto	Takeoff Configuration	Check
FUEL XFR	Pushed Out	Flight Instruments	Check
ELT	Armed	CAS Messages	Check
PUSHER CUTOUT	Pushed Out	Immediately Prior to Takeoff	
HYD PUMP	Auto	Ice Protection	As Required
Gust Lock Pin	Remove	Lights	Set
Rudder Gust Lock	Release	Time Off	Record
HEATING Panel	Check	AFTER TAKEOFF	
ICE PROTECTION Panel	Check	LDG Gear	Check Up
LDG GEAR Lever	DN	Flaps	Zero
PRESSURIZATION Panel	Check	Thrust Levers	Con/Clb
AIR CONDITIONING Panel	As Required	Yaw Damper	On
FIRE EXTINGUISHER Panel	Check	Pressurization	Check
Start/Stop Knobs	Stop	CLIMB TRANSITION ALTITUDE	
Flap Lever	Zero	Altimeters	Set & Crosscheck
Parking Brake	Set	SIGNS/OUTLET	As Required
Seats and Belts	Condition	IFE	As Required
		Lights	Set
		Windshield Heating	On
BEFORE START		DESCENT	
Winds / Aircraft Orientation	Check within Start Limits	Windshield Heating	On
Gear Pins / Steering Link	3 Onboard & Connect	Pressurization	Check LFE
Maintenance Status	Check	Icing Conditions	Verify
VOR Check Log	Check	Landing Speeds	Set
Flight Log	Check	Transition Level	
Lights	As Required	Altimeters	Set & Crosscheck
ENG IGNITION	AUTO	IFE	Off
Thrust Levers	Idle	SIGNS/OUTLET	PED/Belts
Batteries	On	Lights	Set
GPU	As Required	Fuel XFR	Pushed Out
Parking Brake / Chocks	Set & Remove	Approach Briefing	Complete
Circuit Breakers	Check	BEFORE LANDING	
Navigation Databases	Current	LDG Gear	Down Three Green
Oxygen Mask Flow and Microphone	Check	Flaps	Set ___ for Landing
CVR Test	Passed	Yaw Damper	Off
Fuel Quantity and Balance	Check	AFTER LANDING	
Oxygen Pressure	Verify	Flaps	Zero
TEST Panel	Test	Lights	Set
Altimeters	Set & Crosscheck	Landing Time	Record
Flight Plan	Enter	EQUIPMENT	
T/O Temp / ATR	Enter & Set		
LFE	Enter		
Weather Radar	Standby		
Weights	Enter		
T/O Speeds / Acceleration Altitude	Enter & Check		
Flight Director / AFCS	Set		
Coms / Navs / Transponder	Set		
Taxi / Takeoff Briefing	Complete		
Immediately Prior to Start			
Doors	Closed		
BATT Voltage	Check		
IFE	Off		
SIGNS/OUTLET	PED/Belts		
Air Conditioning	Auto		
ADS/AOA HTR	ON (as required in icing)		