



# **Taurus M**

## **Pipistrel**



**FLIGHT MANUAL**

Microsoft **Flight Simulator**

## FOR SIMULATION USE ONLY - DESIGNED FOR SINGLE-PILOT OPERATIONS:

This aircraft has been developed for single pilot operations and has been adapted in such a way to better represent the simulated environment. It has been produced using multiple real-world data points and manuals from various dates and sources with modifications to various components to make them more manageable in Microsoft Flight Simulator.

## PHOTOSENSITIVE SEIZURE WARNING:

A very small percentage of people may experience a seizure when exposed to certain visual images, including flashing lights or patterns that may appear in video games. Even people who have no history of seizures or epilepsy may have an undiagnosed condition that can cause these “photosensitive epileptic seizures” while playing video games.

Immediately stop playing and consult a doctor if you experience any symptoms.

These seizures may have a variety of symptoms, including light-headedness, altered vision, eye or face twitching, jerking, or shaking of arms or legs, disorientation, confusion, or momentary loss of awareness. Seizures may also cause loss of consciousness or convulsions that can lead to injury from falling or striking nearby objects.

Parents should watch for or ask their children about the above symptoms. Children and teenagers are more likely than adults to experience these seizures.

You may reduce the risk of photosensitive epileptic seizures by taking the following precautions:

- Play in a well-lit room.
- Do not play if you are drowsy or fatigued.

If you or any of your relatives have a history of seizures or epilepsy, consult a doctor before playing video games.

## FLIGHT MANUAL INFORMATION:

This flight manual has been written to aid in both Microsoft Flight Simulator 2020 and Microsoft Flight Simulator 2024 gameplay. Although some images and information may be directed towards a specific simulator, most of the information is shared between both simulators. If you find discrepancies in this manual that differ between either, please contact the Got Friends team at [gotfriends.marketing@gmail.com](mailto:gotfriends.marketing@gmail.com) and we will do our best to address these issues and forward the changes to Microsoft for future manual releases. Thank you for your patience in advance and we look forward to receiving your feedback.

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# INTRODUCTION

Presenting the Pipistrel Taurus M Motorglider, a classic and versatile marvel in the world of soaring. The Taurus M seamlessly integrates sleek aerodynamics with reliable self-launch capabilities, making it an excellent choice for both experienced glider pilots and newcomers to the sport. As one of the first two-seat motorgliders with a retractable engine, the Taurus M allows pilots to launch independently, climb effortlessly, and transition to silent soaring without reliance on a tow.

Every detail of the Pipistrel Taurus M has been designed with precision and a focus on sustainability, from its lightweight composite construction to its aerodynamic profile that optimizes glide ratio and range. With Textron's support, Pipistrel continues to elevate the joy of gliding, offering a modern experience that blends the thrill of silent, high-altitude flight with comfort and ease.

We extend our sincere gratitude to the soaring community for their ongoing support and to Pipistrel and Textron for their shared vision in creating an aircraft that embodies elegance, innovation, and a dedication to environmentally friendly flight. The Taurus M is more than just a motorglider; it's an invitation to explore the skies with a fresh perspective and a sustainable spirit.



The Pipistrel Taurus M has its roots in Pipistrel's commitment to eco-friendly aviation and advanced glider design. Founded in Slovenia in 1989, Pipistrel quickly gained recognition for its innovative approach to motor gliding, with a focus on efficiency, versatility, and sustainability. In the early 2000s, the Taurus series emerged as one of the world's first two-seat motorgliders featuring a stowable propeller, which retracted entirely into the fuselage to optimize the aircraft for gliding once at altitude. The Taurus M was a defining step forward, combining a lightweight composite design with the independence of a self-launching motor.

Equipped with a Rotax 503 UL engine, the classic Taurus M generates just under 50 horsepower, delivering smooth, reliable self-launch capabilities. Once airborne, pilots can transition seamlessly to gliding by retracting the propeller, allowing the Taurus M to harness its efficient 41:1 glide ratio and near-silent operation. With a wingspan of nearly 50 feet and a streamlined profile, the Taurus M is capable of impressive cross-country journeys, providing both comfort and performance.

In 2022, Textron Inc. acquired Pipistrel, integrating the company's innovative electric aircraft into its portfolio and forming Textron eAviation, a segment dedicated to sustainable aviation solutions. Although our team has chosen to represent the classic Rotax-powered Taurus M in this release, we would like to highlight Pipistrel's continued advancements with the electric Taurus Electro. As one of the world's first all-electric self-launching gliders, the Taurus Electro exemplifies Pipistrel's and Textron's dedication to reducing aviation's environmental impact and promoting cleaner flight options, aligning with a shared vision of sustainable aviation for the future.



# FEATURES

- ❖ Highly Detailed 3D Model with 4K HD Textures
- ❖ Accurate Flight Model with Custom Wingflex Animations
- ❖ 2 Hand-Crafted Liveries with classic Red and Blue Interior Options
- ❖ Custom Rotax 503 UL WWISE Sound Pack with optional Headphone Simulation
- ❖ Custom LX Navigation Suite including LX Variometer and IBIS II Engine Controller
- ❖ Fully Functioning Checklist with Locators, Cameras, Auto Complete and Evaluation Modes
- ❖ Functional Canopy
- ❖ Option to Fly with a Visible Co-Pilot while in the Virtual Cockpit
- ❖ Customizable Registration Decals
- ❖ Deeply Simulated Retractable Engine System with Priming and Stowing Configurations



# SPECIFICATIONS

## General Characteristics:

Capacity:	Pilot + Copilot
Wingspan:	49.11 ft / 14.97 m
Wing Area:	131.97 sqft / 12.26 sqm
Length:	23.95 ft / 7.3 m
Max Gross Weight:	1,042 lbs / 472.5 kg
Empty Weight:	628 lbs / 285 kg
Flaps:	-5° / 0° / 5° / 9° / 18°
Airbrakes:	Top Mid-Wing

## Powerplant:

Brand:	Rotax
Model:	503 UL
Horsepower:	37 kW / 49.62 HP Rated

## Propeller:

Blades:	2
Diameter:	5.315 ft / 162 cm
Type:	Fixed Pitch, Stowable

## Fuel Capacity:

Tanks:	2 x 7.93 US Gallons / 2 x 30 Liters
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## V-Speeds:

Never Exceed (VNE):	121 kts / 224 kph / 139 mph
Cruise Speed (VC):	88 kts / 163 kph / 101 mph
Takeoff Speed (VS):	42 kts / 78 kph / 48 mph
Best Climb Speed (VY):	54 kts / 100 kph / 62 mph
Best Angle Climb Speed (VX):	46 kts / 85 kph / 53 mph
Best Glide (VBG):	58 kts / 107 kph / 67 mph
Approach Speed (VREF):	50 kts / 93 kph / 58 mph
Stall Speed Full Flaps (VS0):	34 kts / 63 kph / 39 mph
Stall Speed Flaps Up (VS):	41 kts / 75 kph / 47 mph





1. Left Canopy Open Handle
  - ❖ MSFS 2024: Triggers Aircraft Enter/Exit
2. Left Fuel Valve
3. Yaw String (Slip String)
4. Magnetic Compass
5. Combination Airbrakes / Parking Brake Lever
6. Landing Gear Lever
7. Flaps Handle
8. Elevator Trim Handle
9. Co-Pilot Cockpit Visibility Toggle **(MSFS 2020 Only)**
  - ❖ Displays Co-Pilot while in Cockpit Camera Mode
  - ❖ Note: Co-Pilot will always show in External Camera Mode when a Co-Pilot is onboard
10. Right Fuel Valve
11. Right Canopy Open Handle
  - ❖ MSFS 2024: Triggers Aircraft Enter/Exit



# VIRTUAL COCKPIT АВИАЦИОННЫЙ КОКПИТ



1. Emergency Locator Transmitter Panel
2. Altimeter Gauge & Calibration Knob
3. LX Variometer System
4. Variometer Power Switch
5. Microphone / Headphone Switch
  - ❖ Enables Headphone Simulation
6. AS92 VHF Radio System
7. LX Navigation System
8. AS21 Transponder System
9. Avionics Brightness Dimming Switch
10. Mechanical Variometer Gauge (Netto)
11. Airspeed Gauge
12. Canopy Defrost Lever
13. Engine Ignition Switch
14. Engine Starter Button
15. Propeller Retraction Switch
16. Engine Primer Button
  - ❖ Right-Click to Prime Engine
17. Throttle Lever
18. Throttle Lock
19. Tow Cable Release Handle
20. Magnetos Switch
21. Engine / Electrical System Key
22. Solar System Power Switch
23. Solar Battery Selector Switch

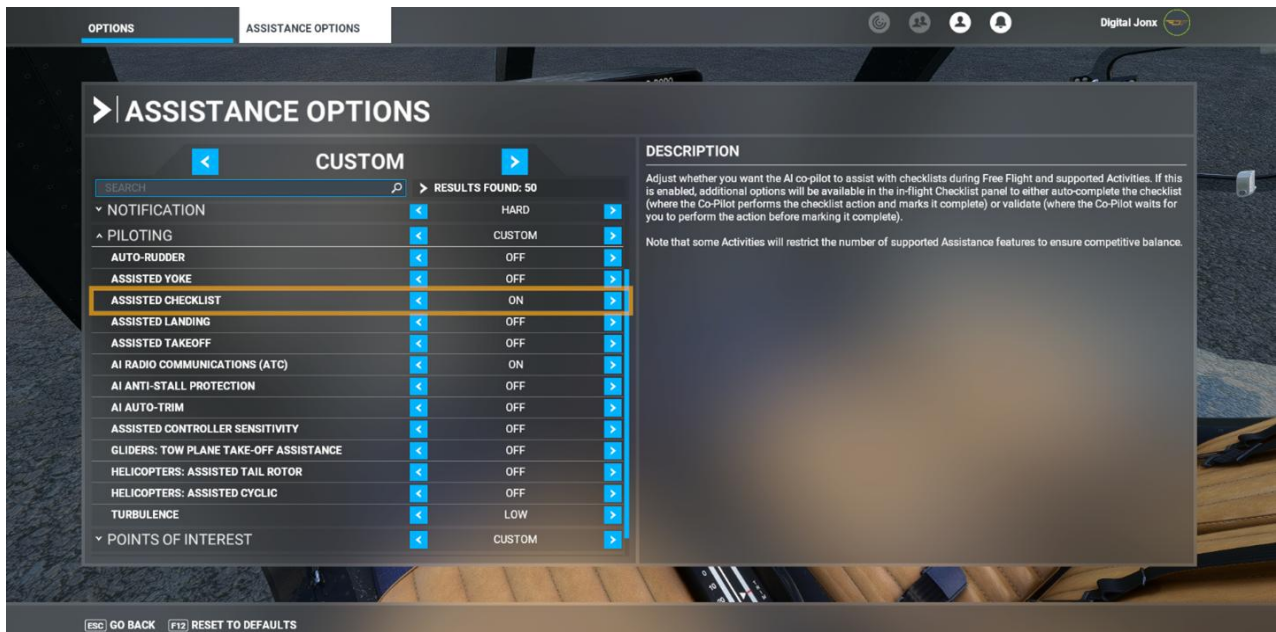




# CHECKLISTS (MSFS 2020)

## CHECKLISTS (MSFS 2020)

The Taurus M has been developed to fully utilize Microsoft Flight Simulator 2020's In-Game Checklist System. If you would like an in-depth walk-through during any phase of flight, you can select the Checklist Pop-Up Menu and get started. The checklists have been designed to assist with locations of each item, Co-Pilot autocompletion and evaluations. If you would like deeper checklist functionality, please consider turning "ON" the Assisted Checklists Option from Microsoft Flight Simulator's Assistance Options Menu. This will allow "Auto Completion" features like automated brake checks, engine warm-ups, and magneto checks when triggered.



# CHECKLISTS (MSFS 2024)

## CHECKLISTS (MSFS 2024)

The Taurus M in Microsoft Flight Simulator 2024 is designed to fully utilize the simulator's integrated Electronic Flight Bag (EFB) checklist system. This feature provides in-depth, interactive checklists accessible at any phase of flight, guiding you through procedures and highlighting the location of each item. The system also allows you to track your progress, ensuring a comprehensive and user-friendly experience.

