

# Flysimware's "Mosquito XE3" Manual

This manual is for Microsoft Flight Simulator and Prepar3D. Not intended for real world use!

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## TIPS:

1. **DXT10 PREVIEW ON:** (RECOMMENDED FOR HIGH REALISM)

INTERIOR MODEL CAST SHADOWS.

2. **DXT10 PREVIEW OFF:**

INTERIOR MODEL DOES NOT CAST SHADOWS.

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## 1. Installation:

Double Click the (Aircraft logo) installer.

Have your registration code copied into your mouse(clipboard). This will auto type your registration code for you. Type any name in the name box and leave the business name blank and click next.

This installer will auto find your fsx game no matter where it is! If it does not find your game, just go to our help page at Flysimware.com

Our models are located under Flysimware as the manufacturer in the simulator select aircraft page. Choose rotorcraft to see all helicopters.

## 2. Description:

The Mosquito is one of the worlds lightest manned Helicopter that has been designed and developed over the last 10 years to deliver performance, reliability and ease of flight. Flying the Mosquito will have you hooked right away and the visibility as good as a bird.

Flysimware's model was designed to mimic a real Moquito XE. We have included all standard gauges and features with a few upgrades. All moving parts are fully animated to mimic real world operations including a custom code for an accurate swashplate effect and a high quality bones animated pilot. Make room in your private hanger as this model will give you many years of enjoyment and helicopter knowledge.

### Airframe:

The Mosquito airframe is a unibody construction made of high quality fiberglass in a vinylester matrix. Body and structure are also fiberglass to minimize weight and maximize structural efficiency.

### Engine:

The Mosquito XE3 has a Zanzottera MZ 301 3 cylinder 2 cycle Piston Engine with the highest power to weight ratio on the market today. The MZ 301 has a lower operating speed of 6000 rpm for less stress and overall reliability. The complete engine package only weighs 69 pounds and comes with a 180-watt alternator and electric starter. It's 85 HP can get you to a top speed of 90 MPH.

### Power Train:

The primary reduction is bolted directly to the engine. A centrifugal clutch on the engine crankshaft permits startup of the engine without the load of the rotor.

### Rotor System:

The main rotor is a semi-rigid configuration. Main rotor blades consist of an aluminum spar bonded to a wrapped aluminum sheet skin. Foam plugs at both ends prevent interior contamination and pumping losses. The tail rotor is also of a semi-rigid configuration with aluminum skin wrapped around a tube and foam plugs at either end. A 45 degree drag hinge is utilized to maintain tail rotor alignment.

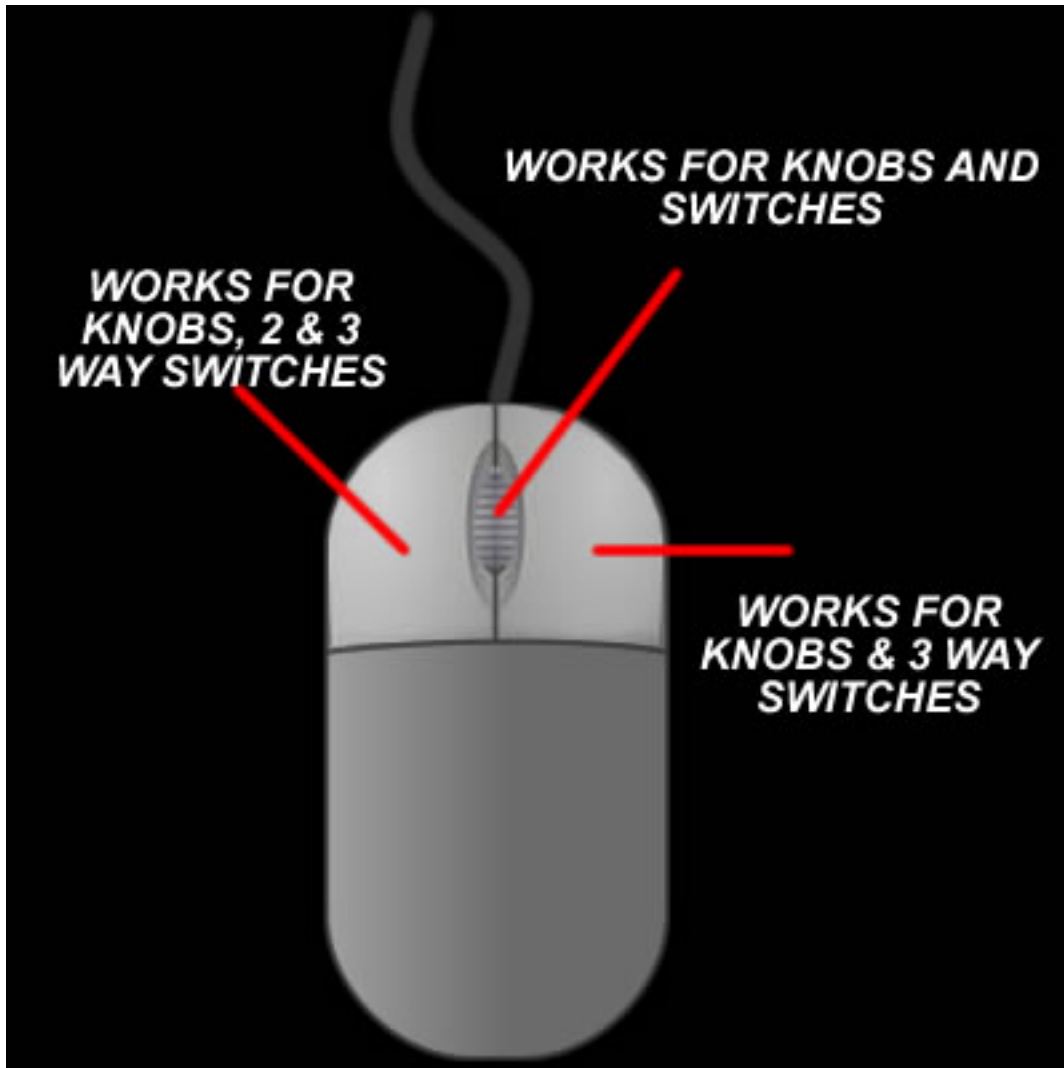
### Control Systems:

The control system is unique to the Mosquito. Main rotor control is achieved from the floor mounted joystick and collective through a control mixer in the base of the main mast, then through push tubes in the mast up to the base of the swash plate. The swash plate is contained within the mast and is supported by a push tube located in the rotor shaft. Control rods on either side of the push tube transmit inputs through the rotor shaft to the control lever on top of the rotor shaft and then down to the blade pitch horns through pitch links. The tail rotor is controlled by the foot pedals through a push pull cable to an actuating lever on the tail rotor shaft.

### 3. Mouse Control & Tool Tips:

All switches and levers are mouse controlled. Tool tips are added to most gauges, for more info on a specific gauge, knob, button or toggle switch. Tooltips can be turned "ON" or "OFF"! Located in FSX aircraft settings page.

This chart shows functions for "ALL OF FLYSIMWARE'S MODELS".



#### 4. 2D windows:

Control Panel = Changes options or repair. (Shift + 1)

Aircraft Specs = Read about aircraft features. (Shift + 2)

#### 5. Service Hanger:

Using the service hanger control panel you can repair and refuel, check map, contact ATC, open kneeboard for checklist and specs.

If you disengage the rotor clutch for an emergency autorotation landing you must click repair before you restart engine. (Or until you re select

aircraft again!)

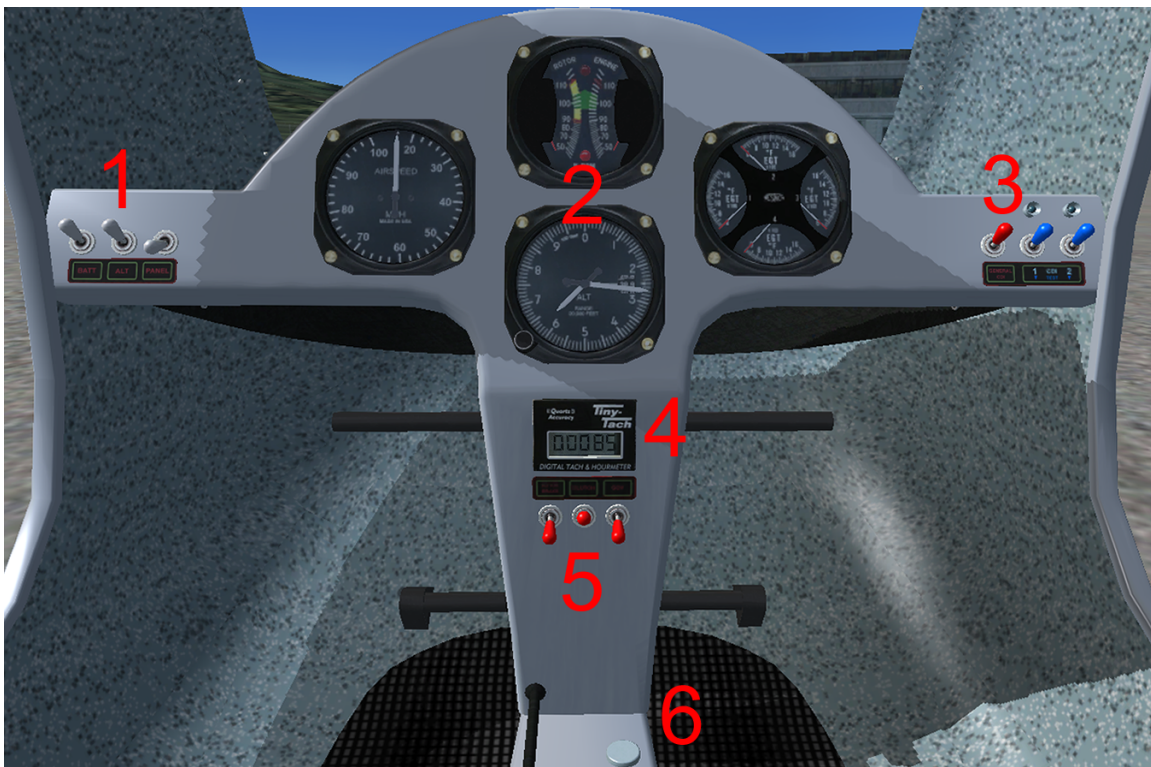
Panel light included for dark flights. Model not set up for night flying! Add sunglasses to pilot. (Shift + 1)

Hanger options:

REPAIR-REFUEL / MAP / ATC / KNEEBOARD / AIRCRAFT FEATURES

PANEL LIGHTS / SUNGLASSES

## 6. MOSQUITO XE3 PANEL:



1. BATTERY / ALTERNATOR / PANEL LTS

2. AIRSPEED GAUGE (MPH) / ROTOR-RPM PCT GAUGE / EGT GAUGE / ALTITUDE GAUGE

3. IGNITION (ALWAYS ON) / LEFT MAGNETO / RIGHT MAGNETO

4. TINY TACH (Shows engine hours when engine is off. Shows engine RPM when running.)

## 5. ROTOR BRAKE / ROTOR CLUTCH / GOVERNER

## 6. MIXTURE LEVER

Rotor trim is located on the control stick hatswitch.

## Joystick controls.....

Assign Collective arm to throttle axis

Assign Engine throttle to propeller pitch

## 7. MOSQUITO XE3 SPECS:

For aircraft specs and suggested speeds, see the Reference page of the Kneeboard. Note that most actions can also be performed using the mouse or the control panel. (Shift + 1) For detailed instructions and suggested speeds, see the Reference page of the Kneeboard. Note that most actions can also be performed using the mouse or the control panel. (Shift + 1)

## 8. Uninstall Product:

Go to start, all programs and look for the folder called "Flysimware". Inside is your uninstall exe. Or go to the add and remove programs in windows.

Removing this product has "NO EFFECT" on your simulator!

## 9. Testing:

Tested on Microsoft Flight Simulator FSX Acceleration and requires SP2 Update or Acceleration update to work properly with all the newest features included for these models.

Includes a Prepare P3D installation for V1 and V2!

Developers: Flysimware.com

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