# Spartan 7W Executive
## Microsoft Flight Simulator X

**Aircraft and Panel by Milton Shupe, Scott Thomas and Urs Burkhardt. Modifications for FSX by Duane L. Tarbox**


Foto: Sergey Riabsev

Werner Schott
Switzerland
w.schott@abbts.ch

**100 KTS ≈ 115,4 MPH** **100 MPH ≈ 86,7 KTS**

## Pre-Start Checklist

| | |
|---|---|
| Parking Brakes | SET |
| Throttle | IDLE |
| Magneto Levers | OFF |
| Battery & Generator Switches | OFF |
| Avionics | OFF |
| Landing Gear Lever | CHECK DOWN |
| Flaps | UP |
| Propeller | HIGH RPM |
| Fuel Flow / Mixture | CUTOFF |
| Fuel Selectors | ON |
| Battery Switch | ON |
| Panel Lights | ON if required |
| Fuel Quantity | CHECK |
| Flight controls | CHECK |
| Avionics Master Switch | ON |
| Elevator Trim | SET for takeoff |
| Check Weather | (ATIS, Flight Services) |
| ***Request Clearance*** | |
| Transponder | STANDBY |
| Beacon/Strobes | ON |

## Startup Checklist

| | |
|---|---|
| Engine and Propeller Area | CLEAR |
| Propeller | HIGH RPM |
| Fuel Flow / Mixture | FULL RICH |
| Throttle | IDLE, cracked |
| Magneto Lever | BOTH |
| Engine Start Button | START |
| Oil Pressure | CHECK |
| Generator Switch | ON |
| Throttle | IDLE |
| Loadmeter | CHECK |
| Voltmeter | CHECK |

## Taxi To Ramp

| | |
|---|---|
| Flaps | RETRACT |
| Landing Lights | OFF |
| Speed | Max. 20 knots |
| Elevator Trim | TAKEOFF SETTING |
| Avionics/Radios | AS REQUIRED |
| Transponder | 1200 |

## Shutdown Checklist

| | |
|---|---|
| Parking Brake | SET |
| Throttle | IDLE |
| Avionics Switch | OFF |
| Nav (Pos) Lights | OFF |
| Pitot Heat | OFF |
| Fuel Flow | CUTOFF |
| Fuel Selector | OFF |
| Magneto Lever | OFF |
| Beacon/Strobes | OFF |
| Panel Light | OFF |
| Battery Switch | OFF |
| Generator Switch | OFF |

## Securing Aircraft

| | |
|---|---|
| Parking Brake | Verify SET |
| Throttle | Verify IDLE |
| All Switches | Verify OFF |



## Before Taxi Checklist

| | |
|---|---|
| Nav (Pos) Lights | ON |
| Heading Indicator | SET |
| Altimeter | SET |
| Instruments | NORMAL OPERATION |
| Radios and Avionics | CHECKED and SET |
| Autopilot | SET and OFF |

***Request Taxi Clearance***

## Taxi Checklist

| | |
|---|---|
| Parking Brake | RELEASE |
| Taxi to assigned runway | SPEED Max. 20 knots |
| Brakes | CHECK during taxi |
| Directional Gyro | PROPER IND. during turns |
| Turn Coordinator | PROPER IND. during turns |
| Artificial Horizon | ERECT during turns |

## Before Take-off Checklist

| | |
|---|---|
| Parking Brake | SET |
| Fuel Quantity | CHECK |
| Throttle | IDLE |
| Propeller | HIGH RPM |
| Mixture | FULL RICH |
| Elevator Trim | SET for takeoff |
| Flaps | 15 deg |
| Flight Controls | FREE AND CORRECT |
| Radios and Avionics | SET |
| Landing Lights | ON |
| Pitot Heat | ON |
| Engine Instruments | CHECK |
| Transponder | ON |

***Request Takeoff Clearance***

## Take-off Checklist

| | | |
|---|---|---|
| Brakes | RELEASE | |
| Smoothly increase thrust to | FULL | |
| At 55 MPH | apply forward yoke until tail lifts to horizontal | |
| V1 = Vr | 90 MPH IAS (decision/rotate) | |
| Pitch | 10 degrees | |
| V2 = | 95 MPH IAS (safety speed) | |
| At Positive Climb Rate | Touch Brakes | |
| Landing Gear | RETRACT | |
| Trim for climb to maintain | 120 MPH IAS | |
| Flaps | RETRACT | |
| Annunciator Lights | CHECK OFF | |
| Engine Instruments | CHECK | |

## Climb-out Checklist

| | | |
|---|---|---|
| Autopilot | CHECK and SET | |
| Airspeed | 130 MPH IAS | 29”-32” |
| | 2300 RPM | |
| Climb Rate | 1000 fpm | |
| Engine Instruments | MONITOR | |
| ***ATC*** | ***AS REQUIRED*** | |
| Landing Lights | OFF | |

## Cruise Checklist

| | | | |
|---|---|---|---|
| Accelerate to cruise speed | @10’000 ft | 205 MPH IAS | 30” |
| | | 2200 RPM | |
| Service Ceiling | | 24’000 ft | |
| Engine+Instruments | | CHECK | |
| Engine Temperatures | | STABILIZE at cruise cond. | |
| Fuel Quantity | | CHECK | |
| Radios | | TUNED and SET | |
| Autopilot | | CHECK and SET | |
| Lights | | as required | |
| Engine Instruments | | CHECK | |



## Descent Checklist

| | | |
|---|---|---|
| Atis/Airport Information | CHECK | |
| Altimeter | CHECK | |
| Radios | SET | |
| Descent Speed | 180 MPH IAS | 17” |
| Descent Rate | -1000 fpm | |
| Landing Gear and Flaps | CHECK UP | |
| Fuel Balance | CHECK | |
| At Transition Altitude (FL180) reset Altimeter to local | | |
| Check Weather | (ATIS, Flight Services) | |

## Approach Checklist

***Localizer Level Flight :***

| | | |
|---|---|---|
| Landing Lights | ON | |
| Propeller | HIGH RPM | |
| Mixture | FULL RICH | |
| Speed: Establish | 125 MPH IAS | 21” |
| Flaps | 15 deg | |
| Speed: Establish | 110 MPH IAS | 28” |
| Flaps | 30 deg | |
| Speed: Establish | 95 MPH IAS | 31” |
| Landing Gear | DOWN | |
| Turning toward runway: set flaps | 45 deg | |

***Final Glideslope Descent :***

| | | |
|---|---|---|
| Speed: Establish | 75 MPH IAS | 28” |
| Parking Brake | VERIFY OFF | |

## Landing Checklist

| | |
|---|---|
| Landing Gear | CHECK DOWN |
| Autopilot | OFF |
| Landing Speed | 85 MPH IAS |
| Touchdown | MAIN WHEELS FIRST |
| Landing Roll | LOWER TAIL WHEEL |