

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

EXTRA 300S

SPECIFICATIONS

Maximum Speed	200 kts, 230 mph, 370 kmh
Cruise Speed	178 kts, 205 mph, 330 kmh
Engine	Textron Lycoming AEIO-540 L1B5 300 hp
Propeller	Three-bladed constant speed
Maximum Range	415 nm, 478 sm, 769 km
Service Ceiling	16,000 ft, 4,877 m
Fuel Capacity	42.3 U.S. gal, 160 L
Empty Weight	1,470 lb, 667.8 kg
Maximum Gross Weight	2,095 lb, 950 kg
Length	23.36 ft, 7.12 m
Wingspan	26.25 ft, 8 m
Height	8.6 ft, 2.62 m
FAA Certified Load Factor	+/- 10 G
Seating	1
Useful Load	625 lb, 283.5 kg



REFERENCE INFORMATION

FS Full Fuel Weight: 1,908 lbs

VA	140 KIAS (normal)
	158 KIAS (acrobatic)
VNO	158 KIAS
VNE	220 KIAS
VS	59 KIAS (normal)
	55 KIAS (acrobatic)
VX	93 KIAS (normal)
	87 KIAS (acrobatic)
VY	104 KIAS (normal)
	96 KIAS (acrobatic)

Best Glide Speed:

90 KIAS (normal)
80 KIAS (acrobatic)

LEGENDA

VA - Maneuvering Speed
VNO - Maximum Structural Cruising Speed
VNE - Never Exceed Speed
VS - Stalling Speed (max. weight)
VX - Best Angle-of-Climb
VY - Best Rate-of-Climb

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RECOMMENDED ACROBATIC MANEUVER ENTRY SPEEDS

MANEUVER	MIN	MAX
Horizontal line	VS	VNO
45-degree climbing	80 KIAS	VNO
90-degree up	158 KIAS	VNO
45-degree diving	VS	VNO
90-degree diving	VS	VNO
1/4 loop climb	100 KIAS	190 KIAS
Looping	100 KIAS	190 KIAS
Stall turn	100 KIAS	190 KIAS
Aileron roll	80 KIAS	158 KIAS
Snap roll	80 KIAS	140 KIAS
Tail slide	100 KIAS	190 KIAS
Spin	VS	
Knife edge	>150 KIAS	
Inverted flight	>VS	190 KIAS

LOAD FACTOR LIMITATIONS

+6 G/-3 G (Normal)

+10 G/-10 G (Acrobatic)

BEFORE STARTING ENGINE

- Brakes -- TEST and SET
- Master Switch -- ON
- Avionics Master Switch -- OFF
- Electrical Equipment -- OFF
- Alternator -- ON
- Nav/Strobe Lights -- ON

ENGINE START

- Propeller -- HIGH RPM
- Mixture -- RICH
- Throttle -- OPEN 1/4 travel
- Boost Pump -- ON
- Ignition Switch -- START (release when engine starts)
- Boost Pump -- OFF

Then:

- Oil Pressure -- CHECK
- Avionics Master Switch -- ON

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BEFORE TAKEOFF

- Flight Controls -- FREE and CORRECT
- Flight Instruments -- CHECK and SET
- Oil Pressure -- CHECK
- Mixture -- RICH
- Fuel Quantity -- CHECK
- Throttle -- 1800 RPM
- Magnetos -- CHECK <175 RPM drop on each; <50 RPM drop between
- Propeller -- CYCLE high RPM/low RPM/high RPM
- Boost Pump -- ON (check fuel flow)
- Engine Instruments and Ammeter -- CHECK
- Throttle -- 800-1000 RPM
- Strobe Lights -- AS DESIRED
- Avionics Master Switch -- ON
- Radios and Avionics -- SET
- Brakes -- RELEASE

TAKEOFF

- Propeller -- HIGH RPM
- Mixture -- RICH (may be leaned above 3000')
- Throttle -- FULL
- Elevator Control -- GENTLY PUSH FORWARD ON STICK (until tail comes up)
- At 65 KIAS, pull back and fly off the runway
- Propeller -- 2400 RPM
- Climb Speed -- 100 KIAS (normal climb)
- Boost Pump -- OFF

CRUISE

- Throttle -- AS DESIRED
- Propeller -- AS DESIRED
- Mixture -- LEAN
- Elevator Trim -- ADJUST

DESCENT

- Throttle -- REDUCE
- Mixture -- FULL RICH
- Propeller -- 2400 RPM
- Elevator Trim -- ADJUST

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BEFORE LANDING

- Boost Pump -- ON
- Mixture -- RICH
- Propeller -- HIGH RPM
- Airspeed -- 80 KIAS

LANDING

- Airspeed -- 80 KIAS on approach
- 70 KIAS on final
- Trim -- ADJUST
- Touchdown -- ALL THREE WHEELS SIMULTANEOUSLY
- Throttle -- IDLE
- Braking -- MINIMUM REQUIRED

SECURING AIRPLANE

- Boost Pump -- OFF
- Engine -- RUN for 1 minute at 1000 RPM
- Throttle -- IDLE
- Avionics Switch , Electrical Equipment -- OFF
- Mixture -- IDLE CUT-OFF (pulled fully out)
- Ignition Switch -- OFF
- Master Switch -- OFF

PILOT'S NOTES
