

# Howard 500

## Microsoft Flight Simulator 2004

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Foto: Art Brett



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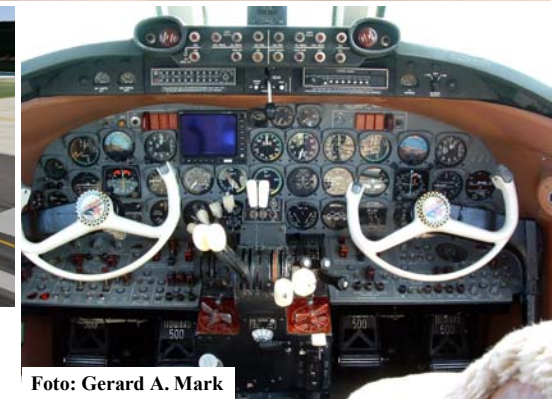


Foto: Gerard A. Mark

Other simulator checklists and other sim/real aviation items available for download at <http://www.faatest.com> and <http://www.faatest.com/downloads/simchecklists/simchecklists.html>



## Pre-Start Checklist

Parking Brakes	SET
Throttle	IDLE
Battery Switch	OFF
Generator Switches	OFF
Starter Master Switch	OFF
Engine Start Selector Switch	OFF
Magneto & Engine Start Switches	OFF
Fuel Boost Pump Switches	OFF
Pitot Heat	OFF
Avionics	OFF
Landing Gear Lever	CHECK DOWN
Cowl Flaps	OPEN
Flaps	UP
Propeller	HIGH RPM
Fuel Flow / Mixture	CUTOFF
Fuel Selectors	FULLEST TANK
Battery Switch	ON
Panel Lights	ON if required
Fuel Quantity	CHECK
Flight controls	CHECK
Avionics Master Switch	ON
Check Weather	(ATIS, Flight Services)
Anti-ice	CHECK
Carb. Heat	COLD
<b><i>Request Clearance</i></b>	
Transponder	STANDBY
Beacon	ON





## Startup Checklist

Engine and Propeller Area  
Throttle  
Fuel Flow / Mixture  
Propeller  
Start Master Switch

CLEAR  
IDLE, cracked  
FULL RICH  
HIGH RPM  
OFF

### Right Engine

Right Fuel Boost Pump  
Right Magneto Switch  
Engine Start Selector Switch  
Primer  
Start Button  
Right Generator  
Right Oil Pressure  
Right Fuel Pressure

ON  
BOTH  
RIGHT  
AS REQUIRED  
ENGAGE (hold until engine starts)  
ON  
CHECK  
CHECK

### Repeat for left engine

Fuel Boost Pumps  
Oil Pressure  
Fuel Pressure  
Loadmeter / Voltmeter  
Engine Start Selector Switch  
Starter Master Switch  
Tail Wheel

OFF  
CHECK  
CHECK  
CHECK  
OFF  
OFF  
UNLOCKED FOR TAXI

## Before Taxi Checklist

Nav Lights  
Heading Indicator / Altimeter  
Instruments  
Radios and Avionics  
Autopilot

ON  
SET  
NORMAL OPERATION  
CHECKED and SET  
SET and OFF

### *Request Taxi Clearance*



## Taxi Checklist

Parking Brake  
Taxi to assigned runway  
Brakes  
Directional Gyro  
Turn Coordinator  
Artificial Horizon

RELEASE  
SPEED Max. 20 knots  
CHECK during taxi  
PROPER IND. during turns  
PROPER IND. during turns  
ERECT during turns

## Before Take-off Checklist

Parking Brake  
Fuel Quantity  
Fuel Selectors  
Cowl Flaps  
Throttle  
Propeller  
Mixture

SET  
CHECK  
FULLEST TANK  
CHECK OPEN  
IDLE  
HIGH RPM  
FULL RICH

### Run up

Throttle  
Magnetos

1500 RPM  
CHECK  
<100 RPM drop on each,  
<40 RPM drop between  
1000 RPM  
AS REQUIRED

Throttle  
Carb. Heat

SET for takeoff  
1 Notch  
FREE AND CORRECT

Elevator Trim  
Flaps  
Flight Controls  
Radios and Avionics  
Landing Lights  
Strobe Light  
Fuel Boost Pumps  
Pitot Heat  
Anti-ice  
Engine Instruments  
Transponder  
Tail Wheel

SET  
ON  
ON  
ON  
ON  
AS REQUIRED  
CHECK  
ON  
LOCKED FOR TAKEOFF

***Request Takeoff Clearance***



## Taxi To Ramp

Strobe Light	OFF
Flaps	RETRACT
Landing Lights	OFF
Anti-ice	OFF
Speed	Max. 20 knots
Cowl Flaps	OPEN
Elevator Trim	TAKEOFF SETTING
Avionics/Radios	AS REQUIRED
Transponder	1200

## Shutdown Checklist

Parking Brake	SET
Tail Wheel	LOCKED
Throttle	IDLE
Fuel Boost Pumps	OFF
Avionics Switch	OFF
Nav Light	OFF
Pitot Heat	OFF
Carb. Heat	OFF
Fuel Flow / Mixture	CUTOFF
Fuel Selectors	OFF
Magnetos	OFF
Beacon	OFF
Panel Light	OFF
Battery Switch	OFF
Generator Switches	OFF

## Securing Aircraft

Parking Brake	Verify SET
Throttle	Verify IDLE
All Switches	Verify OFF
Cowl Flaps	CLOSE

## Take-off Checklist

Smoothly increase thrust to	FULL	56"
Propeller	2750 RPM	
Brakes	RELEASE	
At 60 KIAS	apply forward yoke until tail lifts to horizontal	
V1 =	100 KIAS (descision)	
Vr =	105 KIAS (rotate)	
Pitch	10 degrees	
V2 =	120 KIAS (safety speed)	
At Positive Climb Rate	Touch Brakes	
Landing Gear	RETRACT	
Trim for climb to maintain	155 KIAS	48"
Flaps	UP	
Annunciator Lights	CHECK	
Engine Instruments	CHECK	

## Climb-out Checklist

Autopilot	CHECK and SET	
Airspeed	180 KIAS	38"
Propeller	2400 RPM	
Climb Rate	1200 fpm	
Landing Lights	OFF	
Fuel Boost Pumps	OFF	
Engine Instruments	MONITOR	
<b>ATC</b>	<b>AS REQUIRED</b>	
At Transition Altitude (FL180) set Altimeter to 29,92" (1013mb)		

## Cruise Checklist

Accelerate to cruise speed	6000ft	220 KIAS	2200 RPM	32"
	10000ft	210 KIAS	2200 RPM	32"
	18000ft	200 KIAS	2200 RPM	32"
	20000ft	190 KIAS	2200 RPM	32"
Service Ceiling	25'000 ft			
Engine+Instruments	CHECK			
Cowl Flaps	CLOSED			
Engine Temperatures	STABILIZE at cruise cond.			
Fuel Quantity	CHECK			
Fuel Selectors	FULLEST TANK			
Radios	TUNED and SET			
Autopilot	CHECK and SET			
Lights	as required			

## Descent Checklist

Atis/Airport Information	CHECK			
Altimeter	CHECK			
Radios	SET			
Descent Speed	210 KIAS		25"	
Propeller	2200 RPM			
Descent Rate	-1000 fpm			
Flaps	CHECK UP			
Landing Gear	CHECK UP			
Fuel Balance	CHECK			
Cowl Flaps	CHECK CLOSED			
At Transition Altitude (FL180) reset Altimeter to local				
Check Weather	(ATIS, Flight Services)			

## Approach Checklist

### Localizer Level Flight :

Landing Lights	ON		
Fuel Selectors	FULLEST TANK		
Fuel Boost Pumps	ON		
Cowl Flaps	OPEN HALFWAY		
Propeller	HIGH RPM		
Mixture	FULL RICH		
Speed: Establish	190 KIAS		28"
Flaps	1 Notch		
Speed: Establish	150 KIAS		30"
Landing Gear	DOWN		
Turning toward runway: set flaps	FULL DOWN		

### Final Glideslope Descent :

Speed: Establish	120 KIAS		30"
Elevator Trim	AS DESIRED		
Parking Brake	VERIFY OFF		
Anti-ice	AS REQUIRED		

## Landing Checklist

Landing Gear	CHECK DOWN, 3 GREEN	
Autopilot	OFF	
Landing Speed	105 KIAS	
Touchdown	MAIN WHEELS FIRST	
Landing Roll	LOWER TAIL WHEEL	
Tail Wheel	UNLOCKED	