

MICROSOFT FLIGHT SIMULATOR 2002 CHECKLIST

BOEING 737-400

SPECIFICATIONS

Cruise Speed	477 kts, 550 mph, 885 kph
Engines	CFM56-3C1
Maximum Range	2,059 nm, 2,370 mi, 3,810 km
Service Ceiling	36,089 ft, 11,000 m
Fuel Capacity	5,311 U.S. gal, 20,104 L
Empty Weight-Standard	76,180 lbs, 34,550 kg
Max. Takeoff Weight	138,500 lbs, 62,800 kg
Length	120 ft, 36.45 m
Wingspan	94 ft, 9 in, 25.9 m
Height	36.5 ft, 11.13 m
Seating Seats	147 to 168
Cargo Capacity	1,373 ft, 3 38.9 m3



REFERENCE INFORMATION

FS Full Fuel Weight: 135,844 lbs		V2	(st. temp. sea level)
VMO	340 KIAS		162 KIAS (143,000 lbs)
MMO	.82 MACH		155 KIAS (132,000 lbs)
VLE	270 KIAS / .82 MACH	V2	(st. temp. 5000')
VLO	235 KIAS		161 KIAS (143,000 lbs)
VFE	230 KIAS (flaps 1)		155 KIAS (132,000 lbs)
	230 KIAS (flaps 2)	VREF	147 KIAS (136,400 lbs)
	225 KIAS (flaps 5)		144 KIAS (132,000 lbs)
	210 KIAS (flaps 10)		
	195 KIAS (flaps 15)	Turbulent Air Penetration Speed:	
	190 KIAS (flaps 25)	280 KIAS	
	185 KIAS (flaps 30)		
	158 KIAS (flaps 40)		
V1	(st. temp. sea level)		
	150 KIAS (143,000 lbs)		
	143 KIAS (132,000 lbs)		
V1	(st. temp. 5000')		
	152 KIAS (143,000 lbs)		
	145 KIAS (132,000 lbs)		
VR	(st. temp. sea level)		
	154 KIAS (143,000 lbs)		
	147 KIAS (132,000 lbs)		
VR	(st. temp. 5000')		
	157 KIAS (143,000 lbs)		
	149 KIAS (132,000 lbs)		

LEGENDA

VMO - Max. Operating Speed (KIAS)
MMO - Max. Operating Speed (MACH)
VLE - Maximum Landing Gear Extension Speed
VLO - Maximum Gear Operating Speed
VFE - Maximum Flaps Extended Speed
V1 - Takeoff Decision Speed (dry, flaps 5)
VR - Rotation Speed (dry, flaps 5)
V2 - Takeoff Safety Speed (dry, flaps 5)
VREF - Landing Approach Speed (flaps 30; gear down)

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BEFORE START

- Parking Brake -- SET

ENGINE START

- Engine Start Levers -- ON
- Throttle -- IDLE
- Left Engine Start Switch -- START (hold until engine starts)
- Right Engine Start Switch -- START (hold until engine starts)

AFTER START

- Engine Start Switches -- CHECK GEN
- Pitot Heat -- ON
- De-ice -- AS REQUIRED
- Engine Start Levers -- CHECK IDLE
- Lights -- AS REQUIRED
- Autopilot -- SET and OFF
- Instruments -- CHECKED
- Autobrake Switch -- RTO (Rejected Takeoff)
- Avionics Switch -- ON
- Avionics -- SET

DURING TAXI/BEFORE TAKEOFF

- Brakes -- RELEASE
- Thrust Levers -- INCREASE SLIGHTLY TO ROLL
- Thrust Levers -- IDLE FOR TAXI
- Flight Controls -- CHECK
- Flaps -- SET FOR TAKEOFF (5)
- Brakes -- SET

CLEARED FOR TAKEOFF

- Engine Start Switches -- GEN
- Flight Director -- ON
- Autothrottle -- ARM (if using TO/GA mode for takeoff)
- Transponder -- ON
- Lights -- AS REQUIRED

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TAKEOFF

- Brakes -- RELEASE
- Thrust Levers -- ADVANCE SMOOTHLY TO 40% N1 (wait for engine stabilization)
- Thrust Levers -- ADVANCE SMOOTHLY TO 100% N1 --or-- TO/GA Mode -- Engage
- Engine Instruments -- MONITOR
- Airspeed 80 KIAS -- CALLOUT "80 KNOTS" -- VERIFY PROPER THRUST SET
- Airspeed V1 -- CALLOUT "V1"
- Airspeed VR -- CALLOUT "ROTATE" -- ROTATE TO APPROX. 10 DEGREES PITCH UP
- Airspeed V2 -- CALLOUT "V2"
- Landing Gear -- UP (WHEN POSITIVE CLIMB ESTABLISHED)
- Airspeed -- MAINTAIN V2+20 KIAS
- Autopilot -- ENGAGE AT 1,000' AGL
- Flaps-- RETRACT TO 1 AT 1,000' AGL
- Flaps-- UP AT 210 KIAS
- Autothrottle -- OFF
- Thrust Levers-- 90% N1
- Airspeed -- 250 KIAS AT 3,000' AGL
- Landing Gear Lever -- Verify OFF

CLIMB

- Airspeed -- MAINTAIN 250 KIAS
- Landing Lights -- OFF ABOVE 10,000' MSL
- Airspeed -- 280 KIAS ABOVE 10,000' MSL
- Altimeter -- SET TO 29.92 CROSSING 18,000' MSL

CRUISE

- Thrust Levers-- AS DESIRED
- Trim -- AS NECESSARY

DESCENT

- Autobrake Switch -- AS DESIRED
- Airspeeds (VREF, VAPP) -- COMPUTED and SET
- De-ice -- AS REQUIRED
- Autopilot -- AS DESIRED
- Thrust Levers -- AS DESIRED
- Altimeter -- SET TO LOCAL SETTING CROSSING 18,000' MSL
- Avionics -- SET
- Airspeed -- <250 KIAS BELOW 10,000' MSL
- Landing Lights -- ON BELOW 10,000' MSL
- Approach Procedure -- REVIEW

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APPROACH

- Airspeed -- AS DESIRED
- Thrust Levers -- AS DESIRED
- Flaps -- AS DESIRED
- Autopilot -- AS DESIRED
- Autothrottle -- ARM (if using TO/GA mode for go-around)

VREF	147 KIAS (136,400 lbs)
	144 KIAS (132,000 lbs)

LANDING

- Airspeed -- AS DESIRED
- Thrust Levers -- AS DESIRED
- Speedbrake -- ARMED
- Landing Gear -- DOWN AND CONFIRMED
- Flaps -- AS DESIRED
- Start Switches -- GEN
- Autopilot -- AS DESIRED

LANDING ROLL

- Thrust Levers -- IDLE
- Autopilot -- CHECK DISENGAGED
- Autothrottle -- CHECK OFF
- Speedbrake Lever -- CHECK FULL UP
- Brake -- AS NECESSARY
- Thrust Levers-- REVERSE
- Thrust Levers -- IDLE AT 60 KIAS

TAXI-IN

- Speedbrake Lever -- DN
- Flap Lever -- UP
- Pitot Heat -- OFF
- Engine Start Switches -- OFF
- Landing Lights -- AS DESIRED
- Flight Director -- OFF
- Transponder -- AS REQUIRED

PARKING

- Parking Brake -- SET
- Start Levers -- CUTOFF
- De-ice -- OFF
- Lights -- AS REQUIRED
- Speedbrake Lever -- DOWN
- Transponder -- AS REQUIRED