

Embraer 170

Microsoft Flight Simulator 2004

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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 Brake	SET
Throttle	IDLE
Fuel Flow	CUTOFF
BATT Master Switch	ON
Landing Gear Lever	CHECK DOWN
Flaps	UP
Spoiler	RETRACTED
Fuel Quantity	CHECK
Pitot Heat	OFF
De-Ice	OFF
Aircraft Lighting	OFF
Flight controls	FREE AND CORRECT
Fasten Seat Belts	ON
No Smoking Sign	ON
Check Weather	(Atis, Flight Services)
De-Ice	TEST/CHECK

Request Clearance

Transponder	STANDBY
Beacon	ON

Startup Checklist

Engine/Throttle Panel	ACTIVATE
Thrust Levers	IDLE
Engine Area	CLEAR
Eng 1 Start Switch	START
At N2 > 20% Fuel Flow Eng 1	ON
N1 increasing as N2 incr.	CHECK
Oil Pressure	CHECK
Alt/Generator	ON
Repeat for Eng 2	
Aircondition fan	ON

Securing Aircraft

Parking Brake	Verify SET
Throttle	Verify IDLE
All Switches	Verify OFF



Landing Checklist

Autoland	Available ?
Landing Gear	CHECK DOWN
Autopilot and Autothrottle	OFF
Landing Speed	140 KIAS
After touchdown	Apply Reverse Thrust, at 60 kts: Cancel Reverse Thrust
Spoilers	VERIFY EXTENDED
Brakes	AS REQUIRED

Taxi To Ramp

Strobe Light	OFF
Flaps	UP
Spoilers	RETRACTED
Taxi Lights / Runway Turnoff Lights	ON
Landing Lights	OFF
Speed	Max. 20 knots
Transponder	1200 / OFF
Elevator Trim	TAKEOFF SETTING

Shutdown Checklist

Parking Brake	SET
Throttle	IDLE
Passenger Signs	OFF
Aircondition fan	OFF
Pitot Heat	OFF
De-Ice	OFF
Taxi Lights / Runway Turnoff Lights	OFF
Nav Lights	OFF
F/D	OFF
Fuel Flow	OFF
Alt/Generators 1 – 2	OFF
Engine Start Switches 1 – 2	VERIFY OFF
Beacon	OFF
BATT Master Switch	OFF

Before Taxi Checklist

Nav Lights	ON
Taxi Lights / Runway Turnoff Lights	ON
MFD	CONFIG
Heading Indicator/Altimeters	SET
Standby Instruments	SET
Radios and Avionics	SET FOR DEPARTURE
Autopilot	SET, don't activate
Autothrottle	SET, ARM, don't activate
F/D	ON
Elevator Trim	SET for takeoff

Request Taxi Clearance

Taxi Checklist

Parking Brake	RELEASE
Taxi to assigned runway	SPEED Max. 20 knots
Brakes/Gyro/Turn Coordinator	CHECK during taxi and turns

Before Take-off Checklist

Parking Brake	SET
Throttle	IDLE
Elevator Trim	SET for takeoff
Flap Lever Position	1 - 2
Spoilers	RETRACTED
Flight Instruments	CHECK
Engine Instruments	CHECK
Takeoff Data (V1, VR, V2)	CHECK
Nav Equipment	CHECK
Landing Lights	ON
Taxi Lights / Runway Turnoff Lights	OFF
Strobe Light	ON
Pitot Heat	ON
De-Ice	AS REQUIRED
Transponder	ON

Request Takeoff Clearance

Take-off Checklist

Smoothly increase thrust to Takeoff Thrust	40% N1 let spool up
Brakes	FULL or TO/GA
V1 =	RELEASE
Vr =	140 KIAS (descision)
Pitch	150 KIAS (rotate)
V2 =	10 deg. nose up
At Positive Climb Rate	160 KIAS (safety speed)
Landing Gear	Touch Brakes
At 1000' AGL	RETRACT
At 210 KIAS	RETRACT Flaps to Pos. 1
	RETRACT flaps up

Climb-out Checklist

Throttle	AS REQUIRED
Trim for	250 KIAS / 1700 fpm
Autopilot/Autothrottle	CHECK and ACTIVATE
Below 10000' max. speed	250 KIAS
ATC	AS REQUIRED
Fasten Seat Belts	OFF
No Smoking Sign	OFF
Landing Lights	OFF
Above 10000' speed	280 KIAS

Cruise Checklist (above FL 180)

At Transition Altitude (FL180) set Altimeter to	29,92" (1013mb)
Accelerate to cruise speed	FL180 0.67 mach (330 KIAS)
	FL240 0.76 mach (335 KIAS)
	FL280 0.80 mach (325 KIAS)
	FL330 0.81 mach (295 KIAS)
Engine+Instruments	CHECK
Fuel Quantity	CHECK
Radios	TUNED and SET
Autopilot	CHECK and SET
Lights	as required

Descent Checklist

Atis/Airport Information	CHECK
Altimeter	CHECK
Radios	SET
De-Ice	AS REQUIRED
Descent Speed	to FL240 0.75 mach
	to FL180 0.65 mach
At Transition Altitude (FL180) reset Altimeter to local	to FL120 280 KIAS
	below 10'000ft 250 KIAS
Fuel Quantities and Balance	CHECK
Flaps / Landing Gear	CHECK UP
Check Weather	(ATIS, Flight Services)

Approach Checklist

Localizer Level Flight :

Fasten Seat Belts	ON
No Smoking Sign	ON
Avionics + Radios	SET
Speed: Establish	210 KIAS
Landing Lights	ON
Auto Spoilers	ARM
Flap Lever Position	1 => 2
Speed: Establish	180 KIAS
Flap Lever Position	3 => 4
Speed: Establish	160 KIAS
Landing Gear	DOWN
Turning toward runway:	
Set Flap Lever Position	5 or FULL

Final Glideslope Descent :

Speed Establish	145 KIAS
Elevator Trim	AS DESIRED
Parking Brake	VERIFY OFF
De-Ice	AS REQUIRED