

Embraer 145

Microsoft Flight Simulator 2004

Aircraft: FeelThere PIC ERJ-145 LR



Scott Mason
USA
smason@onqueuesoftware.com



Pre-Start Checklist

Parking Brake	SET
Throttle	IDLE
BATT Master Switch	1,2 AUTO
“AURAL UNIT OK”	
Avionics	1,2 ON
EMER LIGHTS	ARM
Fuel Pump 2 (Right)	ON
APU Master	START
APU Check	100%
Windshield Anti Ice	1,2 ON
Air Conditioning Pack	1,2 OPEN
Icing Conditions?	
YES A/C Bleed Air	1,2 CLOSED
NO A/C Bleed Air	1,2 OPEN
Fasten Seat Belt Sign	ON
No Smoking Sign	ON
NAV Lights	ON
Overhead Panel Switches	ALL BLACK
Audio Alarm	OFF
Clock Mode	LOCAL
<i>Request Clearance</i>	
Transponder	STANDBY

FMS Setup Checklist

Time and Season	Time OFF – 15
Passengers	LOAD
POS INIT	SET
Position	LOAD
Flight Plan	LOAD
Destination	SET
Alternate	SET
Departure Runway	SET
Flight Plan on MFD	VERIFY
PERF INIT	SET
Climb	270kts / .56M
Cruise	295kts / .72M
Descent	VMO/MMO/4
Fuel Reserve	NBAA
TO/LDG	400/200 lb
Transition Altitude	SET
Cruise Altitude	SET
Cruise Winds	SET
Weights	SET
CONFIRM INIT	
PERF DATA	
Takeoff Winds	SET

Takeoff Speeds – Flaps 9°

Weight (lbs x 1000)	V1	VR	V2	VFS (AP)
28	113	122	128	142
29	113	122	127	145
30	113	121	126	147
31	113	121	126	150
32	114	121	125	152
33	116	123	127	154
34	119	126	129	156
35	122	128	131	158
36	124	130	133	160
37	127	132	135	163
38	129	134	137	165
39	132	136	138	167
40	134	138	140	169
41	137	140	142	171
42	139	142	144	173
43	141	144	146	175
44	143	146	148	177

V1 – Takeoff Decision Speed
VR – Takeoff Rotation Speed
V2 – Takeoff Safety Speed
VFS – Best Rate of Climb Speed

MFD Speeds

SET

Engine Start Checklist

Main Doors	CLOSED
Cargo Doors	CLOSED
MFD Door Display	ALL GREEN
Beacon (Red)	ON
APU Bleed	ON/OPEN
Engine Ignition Switches	1,2 AUTO
Fuel Pump 1 (Left)	ON
Engine 2 Start Switch	START
N2 = 23%	STARTED
N2 = 65%	CHECK
Engine 1 Start Switch	START
N2 = 23%	STARTED
N2 = 65%	CHECK
Electric Pumps	1,2 AUTO
APU Bleed	OFF/CLOSED
APU Control	STOP
APU Master	OFF

Before Taxi Checklist

ENG NO TO DATA Alarm
Takeoff Data Store
MFD TO/MODE
MFD Temperature
Anti Ice Mode
MFD Takeoff Data

EICAS Warnings
YELLOW
RED
BLUE

Radios and Avionics
Autopilot
FD
YD
Elevator Trim
TCAS Range

SILENCE

T/O-1

SET

SELECT

BLUE

NONE

NONE

ADVISORY

SET FOR DEPARTURE

SET, don't activate

ON

ON

SET for takeoff

12/NORMAL

Request Taxi Clearance

Taxi Checklist

Taxi Lights
Gust Lock
PFD TOGA
PCD Navigation Mode
PCD BRG Source
Parking Brake
Taxi to Assigned Runway

ON

RELEASE

ROL - TO

FMS

1,2 FMS

RELEASE

SPEED Max 15 knots

Before Takeoff Checklist

Flaps
TO CONFIG
“TAKEOFF OK”

RMU Transponder
Speed Brake
Flight Instruments
Engine Instruments
Takeoff Data (V1, VR, V2)
Nav Equipment
Thrust Panel
Thrust Mode

AP HDG Mode
AP FLC Mode
AP ALT Mode

9°

PRESS

TA/RA

CLOSED

CHECK

CHECK

CHECK

CHECK

SHOW

T/O

SET

SET

SET

Request Takeoff Clearance

Landing Lights

Taxi Lights

Strobe Light

Runway HDG

ON

OFF

ON

SYNC

Takeoff Checklist

Brakes
Takeoff Thrust
V1
VR
Pitch Establish
At Positive Climb Rate
Landing Gear
Thrust Mode
AP
At VREF

RELEASE
FULL
DECISION
ROTATE
per FD
Touch Brakes
RETRACT
CLB
ENGAGE
FLAPS UP

Climb-out Checklist

Below 10,000 speed
LNAV Mode
FD → HDG-CLB
FD → AP-YD
FD → LNAV-ASEL
AP VS Mode
Above 10,000
Landing Lights
Seat Belt Sign
Speed
Passing FL180

250 KIAS
SELECT
CHECK (Green)
CHECK (Green)
ARMED (White)
1800 fpm
OFF
OFF
270 KIAS
Altimeter 29.92 In.

Cruise Checklist

Thrust Mode
Airspeed Maintain
Engine+Instruments
Fuel Quantity
Radios
Lights
FMC Progress
MFD Aircraft Systems

CRZ
0.76 mach
CHECK
CHECK
CHECK
as required
CHECK
CHECK

Descent Checklist

ATIS/Airport Information
At FL180 Altimeter
Radios
Decision Height
VS
to FL240
to FL180
to FL120
below 10,000 ft
Fuel Quantity and Balance
MFD Landing Speeds
Weights FMS PROG Pg 2
Weather
ILS NAV Frequencies
ILS CRS
CHECK
SET LOCAL
SET
SET
SET
0.74 mach
0.65 mach
280 KIAS
250 KIAS
CHECK
SET
CHECK
SET
SET

Approach Checklist

Localizer Level Flight:

Fasten Seat Belts Sign
No Smoking Sign
Avionics+Radios
VS
Speed: Establish
AP Source Select
ILS CRS
At LOC Capture AP
Speed Establish
Flaps
Speed Establish
Flaps
Final GS Descent
Flaps
Landing Gear
Speed Establish
Flaps
ON
ON
SET
900 fpm
200 KIAS
NAV
CHECK
APR
180 KIAS
9°
160 KIAS
18°
22°
DOWN
TARGET
as required

Landing Checklist

Landing Gear	DOWN
AP	OFF
Maintain TARGET Landing Speed	
After Touchdown	Reverse Thrust
	Cancel at 80 knots

Taxi To Ramp

Taxi Lights	ON
Landing Lights	OFF
Strobe Light	OFF
Flaps	UP
Transponder	STANDBY
APU	START
Speed Max	15 knots

Shutdown Checklist

Parking Brake	SET
Throttle	IDLE
Gust Lock	ENGAGE
Engines	2,1 STOP
Electric Hydraulic Pumps	1,2 OFF
Beacon (Red)	OFF
Seat Belt Sign	OFF
Passengers	SET FREE
Fuel Pumps	1,2 OFF
EMER Lights	OFF
APU	STOP
APU	OFF
Avionics	1,2 OFF
BATT Master Switch	1,2 OFF

Landing Speeds – Flaps 22°

Weight (lbs x 1000)	VFS (V1)	Vref (VR)	Vga9 (V2)	TGT (AP)
28	136	111	129	121
29	138	113	131	123
30	140	115	133	125
31	143	116	135	126
32	145	118	137	128
33	147	120	140	130
34	149	121	142	131
35	151	123	143	133
36	154	125	145	135
37	155	126	147	136
38	157	128	149	138
39	159	130	151	140
40	161	131	153	141
41	163	133	154	143
42	165	134	156	144
43	167	136	158	146
44	169	137	160	147

VFS – Single Engine Best Rate Enroute Climb Speed
Vref – Landing reference with 22° of flaps
Vga9 – Flaps 9° Go-Around safety speed
TGT – Landing approach target speed

Landing Speeds – Flaps 45°

Weight (lbs x 1000)	VFS (V1)	Vref (VR)	Vga9 (V2)	TGT (AP)
28	136	114	128	124
29	138	114	131	124
30	140	114	133	124
31	143	114	135	124
32	145	114	137	124
33	147	115	140	125
34	149	117	142	127
35	151	118	143	128
36	154	120	145	130
37	155	121	147	131
38	157	123	149	133
39	159	124	151	134
40	161	126	153	136
41	163	127	154	137
42	165	128	156	138
43	167	130	158	140
44	169	131	160	140

VFS – Single Engine Best Rate Enroute Climb Speed
Vref – Landing reference with 45° of flaps
Vga9 – Flaps 9° Go-Around safety speed
TGT – Landing approach target speed