# Beginner Guide – Checklist & Procedures for MS Flight Simulator

#### **IMPORTANT**

#### **ENGLISH**

This checklist is designed for a efficient operation flow for one pilot, but I tried to keep it as close as possible to the real procedures. The procedures are intentionally simplified in some regards, to make this guide accessible for beginners.

Making these checklists has become very time consuming for me. So if you really like them, please consider a donation via flightsim.to (even the smallest donation would be helpfull. Many Thanks.

#### **DEUTSCH**

Die Checkliste ist für einen effizienten Bedienungs Flow für einen Piloten gemacht, aber ich versuche immer so dicht wie möglich an den realen Prozeduren zu bleiben. Die Prozeduren sind teilweise absichtlich vereinfacht, um es zugänglicher für Anfänger zu machen.

Das Erstellen dieser Checklisten ist für mich zu einer sehr zeitaufwendigen Sache geworden. Falls du die Checklisten wirklich magst, ziehe bitte eine Spende via flightsim.to in Betracht (selbst die kleinste Spende hilft weiter). Vielen Dank.

CHECKLIST LEGEND		
(MP / MP-L / MP-R)	Main Panel (Left & Right)	
(GS)	Glare Shield Panel	
(OH) (OHP)	Overhead Panel	
(CC/CP)	Center Console/Center Pedestal	
(LP) (RP)	Left Panel / Right Panel	
(BP)	Back Panel	
abcdefg (bold)	most important items for a quick start	
abcdefg	Navigation & ATC	
abcdefg	Gameplay / EFBs / UI Features	
<u>abcdefg</u>	usually done by F/O or Pilot Not Flying	
*)	see Notes Sections	
**abcde	not modelled/simulated yet or not possible	
AS REQ / DES	as required / desired	
(d.o.w)	depending on aircraft actual gross weight	

SPECIFICATIONS & LIMITATIONS			
	787-8	787-9	787-10
Max. T.O. Weight Max. LDG Weight	502.500 lbs / 228 t 380.000 lbs / 172 t	561.500 lbs / 255 t 425.000 lbs / 193 t	560.00 lbs / 254 t 445.000 lbs / 202 t
Max .Seating	381	420	440
Range	7.355 NM	7.635 NM	6.430 NM
Takeoff Runway	8.500 ft	9.300 ft	9.100 ft
Service Ceiling	43.100 ft	41.100 ft	41.100 ft

NOTES		
FMC	Flight Management Computer	
CDU	Control Display Unit	
MCP	Mode Control Panel	
CPT	Captain	
FO	First Officer	
PF	Pilot Flying	
PM	Pilot Monitoring (same as PNF - Pilot Not Flying)	
VNAV	Vertical Navigation	
LNAV	Lateral Navigation	
FLC	Flight Level Change Mode	

# **USING FLC & SELECTED SPEED**

If not using VNAV then use FLC / Selected Speed:

Climb - 250 KIAS below 10.000 ft

- 300 to 320 KIAS above 10.000 ft

Cruise - 300 to 320 KIAS

Descent - 280 to 300 KIAS above 10.000 ft

- 240 to 250 KIAS below 10.000 ft

#### **FLAPS SPEED BUGS**

The Green Number Indicators (UP,1,5,20...) on the speed band are the Maneuver Speeds for the respective flaps setting and you would not fly slower than the Speed Bug with that setting.

I.E. You would use Flap 1 above the Speed Bug 1 und Flap 5 below the Speed Bug 1.

Flaps Schedule during Takeoff is: 15 to 5 to 1 to UP.

Flaps Schedule during Approach is: UP to 1 to 5 to 20 to either 25 or 30.

### **AUTOTHROTTLE & AUTOLAND**

Autoland Autopilot Mode is not properly modeled yet. Autothrottle will also not IDLE automatically at touchdown. So disable Autothrottle at Final Approach and set Thrust manually. Retard to IDLE at around 50 ft callout. Start slowly Flaring at the same time.

#### NORMAL PROCEDURES (SIMPLIFIED)

INITIAL PREF	LIGHT			
FUEL/PAYLOAD	SET/CHECK CG			
FLIGHT DECK SAFET	FLIGHT DECK SAFETY INSPECTION			
Bettern Greitele (OU)	ON			
Battery Switch (OH)	ON SET			
Hydraulic Panel (OH)				
- C1 & C2 Elec Pump Switches	OFF			
- Demand Pump Selectors	OFF			
Wiper Selector (OH)  NAV Lights Switch (OH)	ON			
Logo Light Switch (OH)	AS DEO			
Logo Light Switch (OH) Landing Gear Lever (MP)	DOWN			
- verify EICAS Gear Indication				
Parking Brake	DOWN			
Throttles	IDLE / PEV STOWED			
Parking Brake Throttles Fuel Control Switches	CUT-OFF			
1 del control owitenes	001-011			
ESTABLISHING	POWER			
EXT PWR Switches L, R & AFT (OF	d) ON (if available)			
APU (OH) (if no external Power ava				
- APU selector → hold START → r				
- APU Generator Switches	ON			
Air Condition Panel	SET			
- Euipment Cooling Switches	AUTO			
- Recirculation Fan Switches	ON			
<ul> <li>Flight Deck Temp Control</li> </ul>	A O DEO / 40			
	AS REQ / 10 o'clock			
- Cabin Temp Control	AS REQ / 10 o'clock			
- Cabin Temp Control - L & R PACK Switches	AS REQ / 10 o'clock AUTO			
- Cabin Temp Control - L & R PACK Switches - TRIM Air Switches	AS REQ / 10 o'clock AUTO ON			
- Cabin Temp Control - L & R PACK Switches	AS REQ / 10 o'clock AUTO			

FMC/CDU SETUP	
(IED)	4.0
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**REQ** 

ATIS & ATC Clearance (IFR)
INIT REF → INDEX → IDENT

- → check Aircraft / Engine Data & NAVDATA Cycle
- → POS INIT → verifyt Position (Line 5R)

ROUTE> 1/2 (RTE 1)

- $\rightarrow$  set ORIGIN, DEST & FLT NO
- $\rightarrow$  ACTIVATE  $\rightarrow$  EXEC

DEP/ARR

- $\rightarrow$  DEP select Departure (SID)  $\rightarrow$  EXEC
- $\to \mathsf{DEP}/\mathsf{ARR}$
- ightarrow ARR select STAR & APPROACH ightarrow EXEC

→ ARR - select S ROUTE 1/2 (RTE 1)

- → NEXT PAGE (ROUTE 2/2 (ACT RTE 1)
- ightarrow enter Enroute Waypoints / Airways
- $\rightarrow$  EXEC

**LEGS** 

- → verify Waypoints / delete DISCONTINUITIES
- → EXEC (after making Changes)

 $\overline{\mathsf{INIT}}\ \mathsf{REF} o (\mathsf{INDEX} o) \mathsf{PERF}\ \mathsf{INIT}$ 

- $\rightarrow$  set ZFW (Click on LSK4L)
- → enter Reserves (Fuel) (e.g.20)
- $\rightarrow$  enter CRZ ALT, COST INDEX (0-2000)
- ightarrow EXEC ightarrow THRUST LIM

THRUST LIM

- → set SEL/OAT if desired for double derated Thrust
- → select desired DERATED THRUST (LSK 2,3,4L & 2,3,4R)
- $\rightarrow$  TAKEOFF

TAKEOFF REF 1/2

- $\rightarrow$  enter FLAPS (5°)
- → set CG TRIM (Click on LSK3L)
- → set V1,VR & V2 (click LSK 1,2,3R)
- → NEXT PAGE = 2/2 (opt)
- → enter ACCEL HT and THR REDUCTION if desired (opt)

	KPIT PREPARATION		
	VERHEAD PANEL		
-	ttom, from left to right	column)	
IDO .	ttom, nom reit to right	•	OI
Electrical Panel			SE1
- Battery Switch		ON	
- IFE/PASS Seats		ON	
- Cabin Utility		ON	
- APU	START (if r	ot already)	
- APU Generator Swit		OŃ	
- EXT PWR Switches	_, R & AFT	OFF	
- Generator Control S	vitches ON (OFF = i	lluminated)	
FD Door Power Emergency Light			0
Emergency Light	ARI	MED / GUAF	RDE
Window Heat		ALL O	N (t
Hydraulic Panel (OH)			SE
- set as in Safety Che	K .		
PASS Signs/Seat Belts	Selector	A	יטונ
Lighting Panel Left		AS	
Engine Panel - *EEC Mode Switche	NODM	OUADDED	SE
Fuel Panel		NORM	SE
- Crossfeed Switch		OFF	SE
	OFF (PRESS = i	• • • •	
	SS" Light is extinguished		
	55 Light is exunguished		
WING & ENGINE Anti-I			
Air Condition Panel			SE
- set as in POWER U	)		
Pressurization Panel			SE
- FWD & AFT Outflow	Valves	AUTO	
- Landing Altitude Sel	ector P	USHED IN	
GL	ARESHIELD PANEL		
EFIS Panel		SETAS	DE
- Altimeter	s	ET LOCAL	DE
- Altimeter - ND WXR / TFC / TE	<b>s</b> RR	ET LOCAL OFF	
- Altimeter - ND WXR / TFC / TE - EICAS Side	s RR	ET LOCAL OFF AS DES	
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# **Boeing 787-8/9/10**

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by JayDee 1.33.7

BEFORE PUSHBACK / BEFORE START		
APU	verify ON	
EXT Power	OFF/DISC	
Doors	CLOSED	
PASS Sign/Seat Belts	ON	
Hydraulic Panel (OH)	SET	
- Primary Pumps	ON (FAULT = illuminated)	
- C1 & C2 Pump Switches	AUTO	
- Demand Pump Selectors	AUTO	
Fuel Pumps	ALL ON	
STAB Trim	SET - CHECK EICAS	
Rudder Trim	ZERO - CHECK EICAS	
Beacon (OH)	ON	
Transponder Mode	AS REQ / STBY	
CALL FOR "BEFORE START CHECKLIST"		

ENGINE START		
ATC Clearance (Push	back/Start)	AS REQ
Pushback		AS REQ
Parking Brake		AS REQ
EICAS	nay be started sin	multaneously!  DND.g ENG. INDICATIONS
Left Start Selector (OF	<u>1)</u>	START
Left Fuel Control Swit	ch (CP)	RUN
Right Start Selector (C	OH)	START
Right Fuel Control Sw	ritch (CP)	RUN
EICAS		CHECK INDICATIONS

BEFORE TAXI		
Left & Right Start Selector	verify NORM	
	verify ON (no OFF Light)	
APU	OFF	
Anti-Ice	AS REQ	
Flight Controls verify FREE & FULL MOVEMENT		
Flight Controls	verify FREE & FULL MOVEMENT	
Flight Controls Autobrake	verify FREE & FULL MOVEMENT RTO	
Autobrake Flaps	RTO	
Autobrake Flaps	RTO SET FOR TO (5 or 15)	

ATC Clearance (Taxi)	AS REQ
Taxi Lights	ON
Runway Turnoff Lights	AS REQ / ON

# **TAXI**

- → release Parking Brake
- → slowly apply power
- → max. 30 kts on straights & max. 8-10 kts in turns
- → test Brakes & Steering
- $\rightarrow$  check Flight & Engine Instruments

BEFORE TAKEOFF			
Flaps	verify SET FOR T.O.		
ND WXR / TFC / TERR (EFIS Panel)	AS DES		
CALL FOR "BEFORE TAKEOFF CHECKLIST"			
ATC Clearance	AS REQ		
Start Replay-Tool	IF REQ		
Landing Lights	ON		
Strobe Lights	ON		
Taxi & Runway Turnoff Lights	OFF		
Transponder Mode Selector	TA or TA/RA		
	·		

### **TAKEOFF**

- line up and brake (rolling Takeoff is also permitted)
- set ~40% N1 (GE) or 20 TPR (RR)
- let Engines stabilize
- use TO/GA Button or set Takeoff Thrust Manually
- use a little down pressure on the yoke up to 80 100 KIAS
- at VR smoothly rotate with ~2° per second
- rotate to ~ 15 ° Pitch
- after Liftoff follow FD Bars
- at postive rate → GEAR UP
- maintain min. V2 or V2 + ~20 knots (if very light)
- @ ~ 400 ft TO/GA mode will switch to LNAV/VNAV
  - or manually set Roll & Pitch Modi
- engage Autopilot at own discretion
- @ Acceleration Height → lower Nose
- accelerate to 250 KIAS
- flap retraction at F Bugs (15 → 5 → 1 → UP)

CLIMB	
Landing Gear	verify UP
Flaps	verify UP
Engine Anti-Ice	AS REQ/AUTO
Autobrake	OFF
Transponder Mode Selector	TA/RA
CALL FOR "AFTER TAKEOFF	CHECKLIST"
10.000 ft	
Landing Lights	OFF
Logo Lights	OFF
Taxi & Runway Turnoff Lightsl	OFF
Passenger Signs	AS DES
TRANSITION ALTIT	UDE
Altimeters	SET STD

Altimeters	SET STD
	-
CRUIS	SE
Pass Signs/Seat Belt Sign	OFF
	VERIFY AND CROSS CHECK
You can see Distance to T/	D on CDU PROG Page!
Estimated Top Of Desc	ent (TOD) Formula:
(CRZ ALT - DEST ALT)/1000	
(0.12/12/2017)	
30 - 50 NM PRI	OR TO TOD
Autobrake	AS REQ / Std 2 or 3
Minimums	SET / BARO
Passenger Signs	AS DES
FMS / CDU	SETUP
→ INIT REF → APPROACH - verify / enter DATA	
- choose FLAP/SPD → LSK 4R	
→ RADNAV → check / set ILS FREQU	JENCY
→ HOLD → programm Holding if rec	1

DESCENT	
ATC Clearance	AS REQ
@ T	OP OF DESCENT
AP Altitude	SET DESCENT ALT AND PUSH
AP Descent Mode	VNAV or VS
Passenger Signs	AS DES
	@ 10.000 ft
Landing Lights	ON
Logo Lights	AS DES
Passenger Signs	AS DES
Speed	250 KIAS MAX
@ TRANSITION FLIGHT LEVEL	
Altimeters	SET STD

# **INSTRUMENT APPROACH & LANDING**

- approach @ ~ 3.000 ft above destination airport elevation or (preferred) use proper procedure altitudes
- Flaps Extension:  $0 \rightarrow 1 \rightarrow 5 \rightarrow 20$  prior to Glide Slope or 3.000 ft and  $\rightarrow$  25 or  $\rightarrow$  30 on Glideslope
- select Flap according to F Bugs → i.e. Below Bug "1" use Flap 5 20-15 NM OUT
- verify Altimeter is set LOCAL
- verify AUTOBRAKE is set
- use VNAV or ATH Speed Mode
- descelerate to Flaps 5 Maneuver Speed (Speed Bug "5")
  - set FLAPS 1 at Speed Bug "UP" or 230 KIAS set FLAPS 5 at Speed Bug "1"
- use LNAV or HDG Mode to intercept Localizer
- arm MCP APP Mode on Localizer Intercept Course

#### **BEFORE GLIDE SLOPE**

- GEAR DOWN
- set FLAPS 20
- descelerate to Speed Bug "20"
- arm SPEED BRAKES

# ON GLIDE SLOPE or latest 2.500 ft AGL

- set FLAPS 25°, then 30°
- descelerate to be VREF
- preselect Missed Approach Altitude

# **CALL FOR "LANDING CHECKLIST"**

Landing Gear	DOWN
Flaps	30°(FULL)
Speed Brakes	ARMED
Autobrakes	SET

### @ 1.000 ft AGL

- be stable at LOC and G/S and not more then VREF +20
- verify "LAND 3" and FMA "Rollout" and "Flare" armed
- either leave AUTOPILOT ON for CAT III AUTOLAND or AUTOPILOT OFF for manual Landing
- either now AUTOTHROTTLE OFF and set Thrust to maintain VREF manually
- or disarm AUTOTHROTTLE at 50 ft Callout and then quickly retard your Hardware Throttles to IDLE

#### @ TRESHOLD

- @ 50 ft → FLARE
- @ 50 ft → THROTTLE → IDLE
- touch down with Main Gear, then lower the Nose Gear
- set REVERSE THRUST
- @ 60 KIAS → REVERSE IDLE
- @ 40 KIAS → brake manually to disable AUTOBRAKE

# **CIRCLED APPROACH & LANDING**

# INBOUND on RWY HEADING

- descent to Runway with FLAPS 20°
- Speed ~ 160 KIAS
- at MDA → turn left or right 45°
- fly 20 seconds on that course then turn Down Wind

### **DOWN WIND LEG**

- preselect Missed Approach Altitude
- set GEAR DOWN
- set Landing Flaps
- verify Autobrake is set and Spoilers are armed
- Speed → stay around 10 KIAS above VREF
- abeam (90° to RWY Threshold) → Start Timer
- turn Base Leg 20 sec after beeing abeam
- either now AUTOTHROTTLE OFF and set Thrust to maintain VREF manually

or disarm AUTOTHROTTLE at 50 ft Callout and then quickly retard your Hardware Throttles to IDLE

# CALL FOR "LANDING CHECKLIST"

Landing Gear	DOWN
Flaps	30°(FULL)
Speed Brakes	ARMED
Autobrakes	SET

- start to slightly descent (300 400 fpm)
- aim be at ~ 400 ft AGL when you roll out on Final
- stabilize at VREF at rolling out on Final

### @ TRESHOLD

- @ 50 ft → FLARE
- @ 50 ft → THROTTLE → IDLE
- touch down with Main Gear, then lower the Nose Gear
- set REVERSE THRUST
- @ 60 KIAS → REVERSE IDLE
- @ 40 KIAS → brake manually to disable AUTOBRAKE

### **GO AROUND**

- use TO/GA Button or set Takeoff Thrust Manually
- set FLAPS 20
- at VR smoothly rotate with ~2° per second
- at postive rate → GEAR UP
- @ ~ 400 ft set Roll & Pitch Modi
- engage Autopilot at own discretion
- @ Acceleration Height → lower Nose
- accelerate to 250 KIAS
- flap retraction at F Bugs (15  $\rightarrow$  5  $\rightarrow$  1  $\rightarrow$  UP)

# AFTER LANDING / CLEAR OF RUNWAY

Taxi Lights	ON
Runway Turnoff Lights	AS DES
Landing Lights	OFF
Strobe Lights	OFF
Logo Lights	AS REQ / OFF
Speedbrake	DOWN
Flaps	UP
Transponder Mode	AS REQ / STBY
APU	START if rea
Anti-Ice	AS REQ
WXR / TFC / TERR	OFF

# **PARKING / SHUT DOWN**

Parking Brake	SET
Fuel Control Switches	CUTOFF
Electric Hydraulic Pumps	OFF
Fuel Pumps	OFF
Anti-Ice Anti-Ice	AUTO
Beacon	OFF
Pass Signs/Seat Belt Sign	OFF
Flight Director	OFF
Transponder	STBY
APU / EXT Power	AS REQ
Cockpit Door	UNLOCK

# **CALL FOR "SHUTDOWN CHECKLIST"**

# **SECURING THE AIRCRAFT**

IRS Selectors	OFF
Packs/Lower Recirc Fan	OFF
APU / EXT Power	AS REQ
Battery Switch	OFF

CALL FOR "SECURE CHECKLIST"

# **NORMAL PROCEDURES (FULL)**

PREFLIGHT	FLOWS
Fuel/Load-Manager	SET/CHECK CG
FLIGHT DECK SAFE	ETY INSPECTION
Battery Switch (OH) Hydraulic Panel (OH) C1 & C2 Pump Switches Demand Pump Selectors Wiper Selector (OH) NAV Lights Switch (OH) Logo Light Switch (OH) Landing Gear Lever (MP) EICAS Gear Indication *Alternate Flaps Arm Switch. *Alternate Flaps Selector. Parking Brake	SET OFF OFF OFF ON AS REQ / ON DOWN DOWN OFF
ESTABLISHING EXTER	NAL & APU POWER
FWD EXT PWR Switches 1 & 2 (O APU Switch (OH)check APU "FAULT" light extine APU Generator Switches (OH)* *Trim Air Switches (OH)* *Pack Switches (OH)* *Recirculation Fans Upper/Lower S	hold START, then ON guishes ON ON AUTO
INITIAL PREFLIGH	<u>T PROCEDURE</u>
IRS selectors (OH)	CHECK
EICAS DisplayCDU/HEAVY MOD Options & Pay	CHECK
*Flight Control Surface Panel	SET  NORM  NORM  NORM  Witch  GUARDED  SET  ON  ON  ON  AS REQ
Left Wiper Selector	OFF Lights illuminated
*Towing Power Lights  *Flight Deck Door Power Switch  *CCR Reset Switches  *Emergency Lights Switch  *Service Interphone Switch  *Passenger Oxygen  Window Heat Panel  *- Backup Switches  - Primary Switches  *RAM Air Turbine	ON

Hydraulic Panel	SET
- L ENG & R ENG Primary Pumps	ON
- C1 & C2 Electric Pump Selectors	"FAULT" illuminated
- C1 & C2 Electric Pump Selectors	OFF
	"FAULT" illuminated
- L ELEC & R ELEC Demand Pump Sele	ectorsOFF
	"FAULT" illuminated
PASS Signs/Seat Belts Selector	
Lighting Panel	
- Light Controls	
- Landing Lights	OFF
*GND TEST Selector	NODM
*CVR	
OVIC	1201
*APU Fire Switch	verify IN
74 0 1 110 GWIGHT	
*Cargo Fire ARM Switches	verify OFF
9	all lights extinguished
Engine Panel	SET
*- EEC Mode Switches	NORM
- START Selectors	NORM
*Fuel Jettison Panel	
- Fuel Jettison Nozzle Switches	
*- Fuel To Remain Switch	all lights extinguished
*- Fuel To Remain Switch	IN
- Fuel Jettison ARM Switch	OFF
Fuel Panel	all lights extinguished
Fuel Panel	SE1
- Crossfeed Switch	
verify "VAL	ve" Light extinguished
	OFF
- Fuel Pump Switches	OFF
L AFT PUMP "PRESS" Light ex	OFF tinguished if APU is on
L AFT PUMP "PRESS" Light ex	OFF tinguished if APU is on SS" Lights illuminated
L AFT PUMP "PRESS" Light exverify all other Pump "PRE - BALANCE Switch	OFFOFFOFFOFFOFFOFFOFFOFFOFFOFFOFFOFF
L AFT PUMP "PRESS" Light exverify all other Pump "PRE - BALANCE Switchverify "ON" and "FAUL	OFF tinguished if APU is on SS" Lights illuminatedOFF T" Lights extinguished
L AFT PUMP "PRESS" Light exverify all other Pump "PRE - BALANCE Switchverify "ON" and "FAUL Anti-Ice Panel	OFF tinguished if APU is on SS" Lights illuminatedOFF T" Lights extinguishedSET
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L AFT PUMP "PRESS" Light exverify all other Pump "PRE - BALANCE Switchverify "ON" and "FAUL Anti-Ice Panel WING Anti-Ice Selector Engine Anti-Ice Selectors Lighting Panel Beacon NAV Light LOGO Light Switch WING Light Switch *- Indicator Lights Runway Turnoff Lights Taxi Light Strobe Light	OFF tinguished if APU is on SS" Lights illuminatedOFF T" Lights extinguishedAUTOAUTOAUTOAS REQ / ONAS REQ / ONAS REQ / OFFAS REQ / OFFOFFOFF
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L AFT PUMP "PRESS" Light exverify all other Pump "PRE - BALANCE Switchverify "ON" and "FAUL Anti-Ice Panel WING Anti-Ice Selector Engine Anti-Ice Selectors Lighting Panel Beacon NAV Light LOGO Light Switch WING Light Switch *- Indicator Lights Runway Turnoff Lights Taxi Light Strobe Light **ELT Switch **HUMID Switch	OFF tinguished if APU is on SS" Lights illuminatedOFF T" Lights extinguishedAUTOAUTOAUTOAUTOAS REQ / ONAS REQ / ONAS REQ / OFFCFFOFFOFFOFFOFF
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L AFT PUMP "PRESS" Light exverify all other Pump "PRE - BALANCE Switchverify "ON" and "FAUL Anti-Ice Panel WING Anti-Ice Selector Engine Anti-Ice Selectors Lighting Panel Beacon NAV Light LOGO Light Switch WING Light Switch *- Indicator Lights Runway Turnoff Lights Taxi Light Strobe Light **ELT Switch **HUMID Switch **Cargo Temp Switches **Air Condition Panel **- Euipment Cooling Switches	OFF tinguished if APU is on SS" Lights illuminatedOFF T" Lights extinguishedSETAUTOAUTOSETOFFAS REQ / ONAS REQ / ONAS REQ / OFFTESTOFFOFFOFFOFFOFFSETOFFAS REQ / OFFSETOFFSETOFFSETOFFSETOFFSETOFFSETON
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L AFT PUMP "PRESS" Light exverify all other Pump "PRE - BALANCE Switchverify "ON" and "FAUL Anti-Ice Panel WING Anti-Ice Selectors Lighting Panel Beacon NAV Light LOGO Light Switch WING Light Switch *- Indicator Lights Runway Turnoff Lights Taxi Light Strobe Light Strobe Light **ELT Switch **HUMID Switch **Cargo Temp Switches **Air Condition Panel *- Euipment Cooling Switches *- Recirculation Fan Switches *- Flight Deck Temp Control *- Cabin Temp Control	
L AFT PUMP "PRESS" Light exverify all other Pump "PRE - BALANCE Switchverify "ON" and "FAUL Anti-Ice Panel WING Anti-Ice Selectors Lighting Panel Beacon NAV Light LOGO Light Switch WING Light Switch * Indicator Lights Runway Turnoff Lights Taxi Light Strobe Light  **ELT Switch **HUMID Switch **Cargo Temp Switches **Air Condition Panel **Euipment Cooling Switches Recirculation Fan Switches Recirculation Fan Switches Cabin Temp Control L & R PACK Switches	
L AFT PUMP "PRESS" Light exverify all other Pump "PRE - BALANCE Switchverify "ON" and "FAUL Anti-Ice Panel WING Anti-Ice Selectors Lighting Panel Beacon NAV Light LOGO Light Switch WING Light Switch *- Indicator Lights Runway Turnoff Lights Taxi Light Strobe Light Strobe Light **ELT Switch **HUMID Switch **Cargo Temp Switches **Air Condition Panel *- Euipment Cooling Switches *- Recirculation Fan Switches *- Flight Deck Temp Control *- Cabin Temp Control	
L AFT PUMP "PRESS" Light ex	
L AFT PUMP "PRESS" Light ex	
L AFT PUMP "PRESS" Light ex	

**Beginner Guide – Checklist & Procedures for MS Flight Simulator** 

PREFLIGHT FLOWS - Continiued
Glareshield Panel Setup
EFIS PanelSET
- MINIMUMS SelectorSET - FPV SwitchAS REQ
- METERS SwitchAS REQ
- BAROSET SelectorSET
- AltimeterSET LOCAL
- ND SelectorPLAN + PUSH - ND Range SelectorSET
- ND Range Selector
- ND WXR SwitchOFF
- ND TFC & TERR SwitchesAS REQ
Mode Control Panel (MCP)SET
- Flight DirecorON - Autothrottle ARM SwitchesARM
- Autopilot DISENG BarUP
- HDG/TRK Reference SwitchAS REQ
- Bank Limit SelectorAUTO
- VS/FPA Reference SwitchAS REQ
*- Altitude Increment SelectorAS REQ
Sidewalls
*Oxygen MaskSTOWED
*RESET/TEST SwitchPUSH & RELEASE
verify Yello Cross is showing in the flow indicator
FWD Panel Brightness ControlsAS REQ
Forward Panels
*AIR DATA/ATT SelectorAUTO
*PFD/MFD SelectorNORM
Flight Instruments
<ul> <li>NO VSPD Indicator shows until V Speed are selected</li> <li>*- TCAS OFF Indicator</li> </ul>
- Autothottle Mode is Blank
*- Roll Mode is TO/GA
*- Pitch Mode is TO/GA
- AFDS Status is FLT DIR
Landing Gear PanelCHECK - Landing Gear LeverDOWN
- ALT Gear SwitchGUARDED
- Autobrake SelectorRTO
Integrated Standby Flight DisplayCHECK
- check no approach mode
set Altimeter Local     verify indications are correct and no flags are shown
- verily indications are correct and no mays are snown
Aisle and Control Stand
Speedbrake LeverDOWN Reverse Thrust LeversDOWN
Forward Thrust Levers
Parking BrakeSET
verify "PARKING BRAKE" message in EICAS
*Stabilizer Cutout SwitchesGUARDED
Fuel Control Switch Fire Warning Lights EXTINGUISHED
Fuel Control Switch Fire Warning LightsEXTINGUISHED *Alternate Flaps Arm SwitchOFF
*Alternate Flaps SelectorOFF
Captain's Audio Control PanelAS REQ
*- Weather RadarSET
- TransponderSET
Captain's Tuning & Control PanelSELECT L VHF *Flight Deck Door AccessAUTO
Flap LeverSET to agree with actual Flap Position
*Glideslope Inhibit SwitchEXTINGUISHED
Transponder Mode SelectorSTBY
*Aural Cancel LightEXTINGUISHED
*Floor Light SwitchesAS REQ Evac Command SwitchGUARDED
Aisle Stand/PNL Flood SwitchAS REQ / MID POSITION
The state of the s

# FMC/CDU SETUP

### INIT REF → INDEX → IDENT

- → check Aircraft / Engine Data & NAVDATA Cycle
- → POS INIT → verifyt Position (Line 5R)

#### ROUTE> 1/2 (RTE 1)

- → set ORIGIN, DEST & FLT NO
- → ACTIVATE → EXEC

#### DEP/ARR

- $\rightarrow$  DEP select Departure (SID)  $\rightarrow$  EXEC
- → DEP/ARR
- → ARR select STAR & APPROACH → EXEC

### ROUTE 1/2 (RTE 1)

- → NEXT PAGE (ROUTE 2/2 (ACT RTE 1)
- → enter Enroute Waypoints / Airways
- $\rightarrow$  EXEC

### LEGS

- → verify Waypoints / delete DISCONTINUITIES
- → EXEC (after making Changes)

# INIT REF → (INDEX →) PERF INIT

- → set ZFW (Click on LSK4L)
- → enter Reserves (Fuel) (e.g.20)
- → enter CRZ ALT, COST INDEX (0-2000)
- $\rightarrow$  EXEC  $\rightarrow$  THRUST LIM

#### THRUST LIM

- → set SEL/OAT if desired for double derated Thrust
- → select desired DERATED THRUST (LSK 2,3,4L & 2,3,4R)
- → TAKEOFF

#### TAKEOFF REF 1/2

- → enter FLAPS (5°)
- → set CG TRIM (Click on LSK3L)
- → set V1,VR & V2 (click LSK 1,2,3R)
- $\rightarrow$  NEXT PAGE = 2/2 (opt)
- → enter ACCEL HT and THR REDUCTION if desired (opt)

# PREFLIGHT COMPLETION

Mode Control Panel (MCP)

- LNAV select to ARM
- VNAV select to ARM
- verify Roll Mode is TO/GA / LNAV
- verifiy Pitch Mode is TO/GA / VNAV
- HDG select Departure RWY Heading
- SPD select V2
- Altitude preselect CRZ Flight Level or cleared Altitude

PERFORM PREFLIGHT CHECKLIST	
	Tested, 100%
	HEADING, ALTIMETER
Parking Brake	SET
Fuel Control Switches	CUT OFF

# **Boeing 787-8/9/10**

Beginner Guide – Checklist & Procedures for MS Flight Simulator

by JayDee 1.33.7

BEFORE PUSHBACK/BEFORE START
APUverify ON, else start APUverify no "FAULT" Light
EXT PowerOFF/DISC SYS/STAT PageCHECK
SYS/DOOR PageCHECK DOORS CLOSED & ARMED
Seat Belts (Captain & FO)ON
PASS Sign/Seat Belts (OH)ON *Hydraulic Pumps (OH)ON
*Left & Right Demand Pump Selectors (OH)AUTO
*C1 & C2 ELEC Pumps (OH)AUTO
verify no "FAULT" Light Fuel QantityCHECK EICAS FUEL QTY
Fuel Pumps LEFT, RIGHT & CENTER (OH)ON
STAB TrimSET - CHECK EICAS RUDDER TrimZERO - CHECK EICAS
FO MDFSELECT DOORS Page
*Flight Deck Door (CP)CLOSED & LOCKED
Beacon (OH)ON Transponder Mode Selector (CP)XPDR
PERFORM BEFORE START CHECKLIST
Flight Deck Door
Mode Control Panel (MCP)V2, HDG, Altitude
Takeoff SpeedsV1, VR, V2 CDU PreflightCOMPLETED
Trim UNITS, 0, 0
Taxi & Takeoff BriefingCOMPLETED
BeaconON
ENGINE START

ENGINE START		
ATC ClearanceAS REQ		
Engines are started simultaneously under normal circumstances.		
EICASSHOW SECOND. ENG. INDICATIONS LEFT Start Selector (OH)START		
LEFT Fuel Control Switch (CP)RUN		
*- verify AUTOSTART message in EICAS above left N2		
RIGHT Start Selector (OH)START RIGHT Fuel Control Switch (CP)RUN		
*- verify AUTOSTART message in EICAS above left N2		
EICASCHECK INDICATIONS		

BEFORE	TAXI
Generators L1, L2, R1 & R2	
APU (OH)	
Engine Anti-Ice (OH)	AS REQ
*RECALL	
Autobrake (MP)	RTO
Flight Controls	CHECKED
- select SYS/FCTL Page	
<ul> <li>move Control Column and Ruc</li> </ul>	
CPT MFD	ND Page
Flaps	
CDU Reference Speeds	SET
- CDU CPT/PF	
- CDU FO/PM	ACT RTE 1 LEGS Page 1/x
- Cross Check Settings:	
<ul> <li>Flap Setting, Thrust Selection</li> </ul>	on, Runway, V-Speeds
- V2 in MCP/SPD Selected	
STAB Trim	
RUDDER Trim	
Radio Panel	SET (CPT VHF L)
Flight Deck Door	CLOSED & LOCKED
Radio PanelFlight Deck Door	SET (CPT VHF CLOSED & LOCKE

PERFORM BEFORE TAXI CHECKLIST		
Anti-Ice		
Recall	CHECKED	
Autobrake	RTO (Rejected TakeOff)	
Flight Controls		
Ground Equipment	CLEAR	
ATC Clearance	AS REQ	
Taxi Lights	ON	
Runway Turnoff Lights	AS REQ / ON	

### **TAXI**

- → release Parking Brake
- → slowly apply power, max. 35% N1
- $\rightarrow$  max. 30 kts on straights & max. 8-10 kts in turns
- → test Brakes & Steering

→ check Flight & Engine Instruments			
BEFORE TAKEOFF			
Departure Briefing *Departure Announcement (Cabin Chime) Flaps Transponder Mode Selector (CP) WXR/TERR/VSD (EFIS Panel)	COMPLETEDCHECK SETTA or TA/RA		
PERFORM BEFORE TAKEOFF CHE	CKLIST		
Flaps			
ATC Clearance	AS REQ		
Landing Lights (OH)	ON ON AS REQ / ON AS REQ / ON		
Start Replay-Tool	IF REQ		

# **TAKEOFF**

- → line up and brake (rolling Takeoff is also permitted)
- → set ~40% N1, let engines stabilize
- → use TO/GA Button or set Takeoff Thrust Manually
- → use a little down pressure on the yoke up to 80-100 KIAS
- → at VR smoothly rotate with ~2° per second
- $\rightarrow$  rotate to 10 15 ° Pitch
- → at postive rate GEAR UP
- → airspeed ~ V2+15 to 25 knots
- → use FD pitch as reference
- → AP might by engaged at above 200 ft
- $\rightarrow$  at ~ 400 ft TO/GA mode will switch to LNAV/VNAV
- → flap retraction at ~20 knots below Flap Maneuver Speed

AFTER TAKEOFF	
Landing Gear	UP
PERFORM AFTER TAKEOFF CHECKLIST	
Landing GearFlaps	UP UP

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SET

CLIMB	
@ 10.000 ft	
Landing Lights	OFF
Taxi Lights	
Runway Turnoff Lightsl	
Wing Lights	
Logo Lights	
Transponder Mode Selector (CP)	
@ Transition Altitude	
Altimeter	SET STD

	CRUISE
Pass Signs/Seat Belt Sign.	OFF
	CHECK SET TO STD (29.92/1013)

#### **TOP OF DESCENT**

Estimated Top Of Descent (TOD) Formula:

(Cruise Altitude – Destination Altitude) x 4 = TOD in NM Out 1.000

DESCENT		
Before TOD		
*Recall		
ATC Clearance AS REQ - Use VNAV or FLC for Descent		
@ 10.000 ft		
Landing LightsON Runway Turnoff LightsON Wing LightsON Logo LightsAS REQ / ON		
@ Transition Flightlevel AltimeterSET LOCAL		

# **INSTRUMENT APPROACH & LANDING**

approach @ ~ 3.000 ft above destination airport elevation or use proper procedure altitudes

Flaps Extension: 1, 5, 20, 25 or 30

Extend next Flaps before speed drops under the Speed Bug for Maneuver Speed of current Flap Setting.

# @ 20-10 NM out

- → check Altimeter is set LOCAL
- → use AT Speed Mod or manually set Thrust
- → reduce speed to Flaps 5 Maneuver Speed (Speed Bug "5")
- → set FLAPS 1 at Speed Bug "UP"
- → set FLAPS 5 at Speed Bug "1"
- → arm MCP APP Mode on Localizer Intercept Course

# @ G/S Capture or 3.000 ft AGL

- → reduce speed to be VREF+5 at 3 NM out or 1.000 ft AGL
- → set FLAPS 20
- → LANDING GEAR DOWN
- → set FLAPS 25° or 30°
- → arm SPEEDBRAKES
- → preselect Missed Approach Altitude

PERFORM	LANDING	CHECKI	IST
PERFURIN	LANDING	CHECKL	.101

١	Speedbrakes	ARMED
١	Landing Gear	DOWN
١	Flaps	SET FOR LDG

### @ 1.000 ft AGL

- → Autothrottle OFF, set Thrust to maintain VREF+5
- → Autopilot OFF (No Autoland)
- → start Flaring @ ~ 30 ft
- → slowly retard Throttle to Idle
- → Use Reverse Thrust

Parking Brake

# AFTER LANDING/CLEAR OF RUNWAY

Runway Turnoff Lights	ON
Taxi Lights	ON
Landing Lights	
Strobe Lights	
Wing Lights	
Logo Lights	
3 3	
Speedbrake	DOWN
Flaps	
Transponder	
APU	
Anti-Ice	
Weather Radar	

# PARKING / SHUT DOWN

Tarking brake	⊔∟ ו
Fuel Control Switches	CUTOFF
Pass Signs/Seat Belt Sign	OFF
*Electric Hydraulic Pumps	OFF
*Engine Hydraulic Pumps (Primary)	ON
IRS Selectors	
*FD Door Power	OFF
Fuel Pumps	OFF
Engine Anti-Ice	AUTO
Beacon	OFF
Flight Director	OFF
Transponder	STBY
External Power	AS REQ
PERFORM SHUTDOWN CHECKLIST	
Hydraulic Panel	SET

# 

Parking Brake.....SET
Fuel Control Switches.....CUTOFF
Weather Radar.....OFF

# SECURING THE AIRCRAFT

*Emergency Lights	OFF
*Packs/Lower Recirc Fan	OFF
*EFB	OFF
APU/EXT Power	AS REQ/ON
Battery Switch	OFF
	Į.

# PERFORM SECURE CHECKLIST

IRS	OFF
*Emergency Lights	OFF
*Packs	

# **CHECKLISTS ONLY** PREFLIGHT CHECKLIST Oxygen.....Tested, 100% Flight Instruments......HEADING\_\_\_, ALTIMETER\_ Parking Brake.....SET Fuel Control Switches......CUT OFF BEFORE START CHECKLIST Passenger Signs.....ON Mode Control Panel (MCP).....V2\_\_\_, HDG\_\_\_, Altitude\_ Takeoff Speeds.....V1\_\_\_, VR\_\_\_, V2\_ CDU Preflight......COMPLETED Trim....\_\_\_\_ UNITS, 0, 0 Taxi & Takeoff Briefing......COMPLETED Beacon.....ON BEFORE TAXI CHECKLIST Anti-Ice..... Recall.....CHECKED Autobrake.....RTO (Rejected TakeOff) Flight Controls......CHECKED Ground Equipment......CLEAR BEFORE TAKEOFF CHECKLIST Flaps....\_\_ AFTER TAKEOFF CHECKLIST Landing Gear.....UP Flaps.....UP LANDING CHECKLIST Speedbrakes.....ARMED Landing Gear.....DOWN Flaps......SET FOR LDG SHUTDOWN CHECKLIST Hydraulic Panel.....SET Fuel Pumps.....OFF Flaps......UP Parking Brake.....SET Fuel Control Switches......CUTOFF Weather Radar.....OFF SECURE CHECKLIST IRS.....OFF \*Emergency Lights.....OFF \*Packs.....OFF