

CHECKLIST

B747 series

November 2017

PREFLIGHT	
BATTERY SWITCH	ON
STANDBY POWER SWITCH	AUTO
HYDRAULIC DEMAND PUMPS	OFF
PARKING BRAKE	SET
LANDING GEAR LEVER	DOWN
FLAP POSITION INDICATOR & LEVER	AGREE
FUEL CONTROL SWITCHES	CUTOFF
ANTI-ICE	NAI OFF
OXYGEN	CHECKED
EMERGENCY EXIT LIGHTS	ARMED
ALITMETERS	QNH SET

HYDRAULIC DEMAND PUMPS.....AUX FUEL LOAD and PUMPSAND ON APU......ON BEACON....BOTH DOORS....CLOSED and AUTO PASSENGER SIGNS....ON

AFTERSTART		
APU SELECTOR	AS REQUIRED	
PACKS	ON	
RECALL / STATUS	CHECKED	
REF SPEEDS	CHECKED	
FLAPS	SET / AS REQUIRED	
TRIM	SET	
FLIGHT CONTROLS	CHECKED	
AUTOBRAKES	RTO	

BEFORETAKEOFF	
VITAL DATA	
PACKS	SET / AS REQUIRED
CABIN CREW	NOTIFIED

AFTERTAKE	OFF
LANDING GEAR	UP
FLAPS	UP
PACKS	
EXTERIOR LIGHTS	
ALTIMETERS AT TA	STD
APU	

	APPROA	CH
Δ	ATIS	OBTAIN
F	MC ARRIVALS PROCEDURE	ENTER
E	BRIEFING	COMPLETE
R	RECALL	CHECKED
A	ALTIMETERS at TL	QNH
\	/REF	KTS
I	MINIMAAMININ	
P	PASSENGER SIGNS	ON
	AUTOBRAKES	SET / AS REQUIRED
L	ANDING LIGHTS	

LAN	DING
SPEEDBRAKE	ARMED
LANDING GEAR	DOWN AND GREEN
FLAPS	SET / AS REQUIRED
CABIN CREW	NOTIFIED

AFTERLANDING	
LANDING LIGHTS & STROBE	OFF
FLAPS	UP
SPEEDBRAKE	DOWN
WEATHER RADAR	OFF

SHUTDOW	V
HYDRAULIC PUMPS	OFF
PARKING BRAKE	SET
FUEL CONTROL SWITCHES	CUTOFF
FUEL PUMP SWITCHES	OFF
EXTERNAL POWER	AS REQUIRED



B747

November 2017

GASPER FAN.....ON

POWERUP		IRS MODE SELECTOR	OFF THEN NAV
CIRCUIT BREAKERS	CHECK	STANDBY POWER SELECTOR	,
BATTERY SWITCH		L and R UTILITY POWER SWITCHES	
STANDBY POWER SELECTOR		BUS TIF SWITCHES	
FIRE DETECTION PANEL		GENERATOR CONTACTORS	
FUEL CONTROL SWITCHES		DRIVE DISCONNECT SWITCHES	
START KNOBS		HYDRAULIC DEMAND PUMP SELECT	
ALTERNATE FLAPS OFF		HYDRAULIC ENGINE PUMP SWITCH	
LANDING GEAR LEVER		HYDRAULIC QUANTITY	
FLAP POSITION INDICATOR & LEVER.		FIRE / OVERHEAT TEST	
WEATHER RADAR		EMERGENCY EXIT LIGHTS	
ELECTRICAL POWER, EXT or APU		OVSERVER AUDIO SYSTEM	
MAIN AND APU BATTERY VOLTAGE		SWITCH	VOINIVI
EXTERIOR LIGHTS	AS REQUIRED	SERVICE INTERPHONE SWITCH	OFF
INTERIOR LIGHTS	AS REQUIRED	CARGO FIRE FWD / AFT SWITCH	DISARMED
GROUND INTERPHONE	*	CARGO FIRE DISCHARGE SWITCH	NORMAL
		STANDBY IGNITION SWITCH	NORM
PREFLIGHT		CONTINUOUS IGNITION SELECTOR.	OFF
EXTERIOR SAFETY INSPECTION	COMPLETE	AUTO IGNITION SELECTOR	SINGLE
CREW OXYGEN MASKS	CHECK	L and R JETTISON NOZZLE SWITCHE	SOFF
EMERGENCY EQUIPMENT	CHECK	ALL FUEL PUMPS	OFF
MAINTENANCE STATUS	CHECK	FUEL X-FEED SWITCHES	AS REQUIRED
PRIMARY EICAS	THEN CANCEL	WING ANTI-ICE	AUTO
NO SMOKING SIGNS	ON / AUTO	NACELLE ANTI-ICE	OFF
SEATBELT SIGNS	ON / AUTO	WINDSHIELD WIPER SWITCHES	OFF
GROUND TESTS SWITCH	NORM	PASSENGER OXYGEN SWITCH	NORM
FLIGHT CONTROL SHUTOFF VALUES	NORM	YAW DAMPER SWITCHES	ON
GEN FIELD MAN RESET SWITCHES	NORM	LANDING ALTITUDE	AUTO
APU FIELD MAN RESET SWITCHES	NORM	OUTFLOW VALVE MANUAL SWITCH	ESOFF
SPLIT SYSTEM BREAKER SWITCH	NORM	OUTFLOW VALVES	VERIFY OPEN
COCKPIT VOICE RECORDER TEST	COMPLETE	CABIN ALTITUDE AUTO SELECTOR	NORM
SQUIB TEST	COMPLETE	PASSENGER TEMPERATURE SELECTOR	ORAUTO
EEC MAINTENANCE SWITCHES	NORM	FLIGHT DECK TEMPERATURE SELEC	TORAUTO
IRS MODE SELECTORS	OFF	ZONE SYS FAULT LIGHT	EXTINGUISHED
FAAC INIITIA I IZATIONI.		TRIM AIR SWITCH	
FMC INITIALIZATION:		RECIRC FAN SWITCHES	
IDENT PAGE	CHECK	AFT CARGO HEAT SWITCH	OFF
PRESENT POSITION	ENTER	EQUIP. COOLING SELECTORNO	ORM, OVRD >21°C
GMT	CHECK	HIGH FLOW SWITCH	
FLIGHT NUMBER	ENTER	PACK SYS FAULT LIGHT	EXTINGUISHED
		CASDED FANI	011



B747

November 2017

COCKPIT HUMIDIFIER	ON	HEADING REF SWITCH	NORM
PACK CONTROL SELECTOR	NORM	FMC SOURCE SELECT	LEFT
L and R ISOLATION VALVE SWITCHE	SON	PRIMARY EICAS	CHECK
APU BLEED AIR SWITCH		EICAS STATUS DISPLAY	CHECK
ENGINE BLEED AIR SWITCHES	ON	OIL QUANTITY	
RADIO TUNING PANEL	AS REQUIRED	ALTERNATE GEAR EXTENSION SWITCH	ESOFF
WEATHER RADAR PANEL	SET	GROUND PROXIMITY PANEL	SET
AUDIO CONTROL PANEL	SET	SPEEDBRAKE LEVER	DOWN
HF and SELCAL	CHECK	THRUST LEVERS	IDLE
DATA PRINTER TEST	COMPLETE	PARKING BRAKE	SET
ATIS and CLEARANCE	OBTAIN	STAB TRIM CUTOUT SWITCHES	
FMC NAVIGATION DATA:		FMC TAKEOFF DATE:	
ROUTEENTER RUNWAY SID FUEL RESERVES COST INDEX CRUISE ALTITUDE TRANSITIONS	ENTERSELECTENTERENTERENTER	ZFW	FIRM LECT NTER NTER FIRM
TCAS SYSTEM	TEST	MCP SPEED	
TRANSPONDER CODE		Ar 0	IART / CITECK
TRANSPONDER MODE			
VOR/ADF SWITCHES		PREFLIGHT	
ALTIMETER		BATTERY SWITCH	ON
TFC-TRAFFIC DISPLAY	*	STANDBY POWER SWITCH	
ND DISPLAY OPTIONS		HYDRAULIC DEMAND PUMPS	
FLIGHT DIRECTOR	*	PARKING BRAKE	
AUTOTHROTTLE ARM SWITCH		LANDING GEAR LEVER	
BANK LIMIT SELECTOR		FLAP POSITION INDICATOR & LEVER	
MCP HEADING AND ALTITUDE	SET	FUEL CONTROL SWITCHES	
AUTOPILOT DISENGAGE SWITCH	UP	ANTI-ICE	
RADAR ALTIMETER		OXYGEN	
SOURCE SELECT PANEL		EMERGENCY EXIT LIGHTS	
CLOCK		ALITMETERS	QNH SET
CRT DISPLAY SELECT PANEL			
PFD			
ND	0115017		



November 2017

BEFORESTART

FLIGHT DECK DOOR	LOCKED
HYDRAULIC DEMAND PUMP 4	AUX
HYDRAULIC DEMAND PUMP 1, 2 and 3	AUTO
FUEL QUANTITY and DISTRIBUTION	CHECK
FUEL PUMPSON AS RE	QUIRED
DUCT PRESSURE	CHECK
LNAVAS RE	QUIRED
VNAV	ON
PACK CONTROL SELECTORS 2 & 3	OFF
BEACON	ВОТН

BEFORESTART

HYDRAULIC DEMAND PUMPS	AUX
FUEL LOAD and PUMPS	AND ON
APU	ON
BEACON	ВОТН
DOORS CLOSE[and AUTO
PASSENGER SIGNS	ON

PUSH BACK	AS REQUIRED
GROUND SIGNAL	RECEIVED
ENGINES	START

AFTER START

APU	
HYDRAULIC DEMAND PUMP 4	AUTO
PACK CONTROL SELECTORS (afte	r 2 min)NORM
AFT CARGO HEAT SWITCH	ON
ENGINE INDICATIONS	NORMAL
OIL QUANTITY (after 30 sec)	CHECK
NACELLE ANTI-ICE	AS REQUIRED
AUTOBRAKES	RTO
FLAPS	SET TAKEOFF
STAB TRIM	SET
RUDDER & AILERON TRIMS	SET 0
FLIGHT CONTROLS	CHECK
PRIMARY EICAS	RECALL and CHECK
ACARS OFF-BLOCK TIME	CONFIRM

AFTERSTART

APU SELECTOR	AS REQUIRED
PACKS	ON
RECALL / STATUS	CHECKED
REF SPEEDS	CHECKED
FLAPS	SET / AS REQUIRED
TRIM	SET
FLIGHT CONTROLS	CHECKED
AUTOBRAKES	RTO

TAXI LIC	GHTS	 	ON
TAXI OU	JT	 AS	REQUIRED

BEFORE TAKEOFF

CABIN REPORT	RECEIVED
WEATHER RADAR	AS REQUIRED
AUTOTHROTTLE ARM SWITCH	ARM
TRANSPONDER CODE	CHECK
TRANSPONDER MODE	TA / RA
TRANSPONDER BIAS	ABOVE
PACKS 2 & 3	AS REQUIRED
EXTERIOR LIGHTS	AS REQUIRED
ELAPSED TIME	ZERO

BEFORE TAKEOFF

VITAL DATA	CHECKED
PACKS	SET / AS REQUIRED
CABIN CREW	NOTIFIED

AFTER TAKEOFF

LANDING GEAR	UP
FLAPS	UP
PACKS	ON
EXTERIOR LIGHTS	AS REOUIRED
ALTIMETERS AT TA	STD
APU	OFF

T/C: TRANSPONDER	BIASN	
T/D: TRANSPONDER	BIASBELOW	ŗ



B747

November 2017

APPROA	CH
ATIS	OBTAIN
FMC ARRIVALS PROCEDURE	ENTER
BRIEFING	
RECALL	CHECKED
ALTIMETERS at TL	QNH
VREF	KTS
MINIMA	
PASSENGER SIGNS	ON
AUTOBRAKES	SET / AS REQUIRED
LANDING LIGHTS	ON

SPEEDBRAKE......ARMED LANDING GEAR.....DOWN AND GREEN FLAPS.....SET / AS REQUIRED CABIN CREW.....NOTIFIED

AFTERLANDING

AUTOBRAKES	OFF
AUTOPILOT	OFF
TRANSPONDER MODE	STBY
EXTERIOR LIGHTS	AS REQUIRED
FLAPS	UP
SPEEDBRAKE LEVER	DOWN
WEATHER RADAR	OFF
CONTINUOUS IGNITION	OFF
FLIGHT DIRECTOR	OFF
AUTOTHROTTLE ARM SWITCH	OFF
APU	AS REQUIRED
EQUIP. COOLING SELECT	NORM, OVRD >21°C
AFT CARGO HEAT SWITCH	OFF

AFTERLANDING
LANDING LIGHTS & STROBEOFF
FLAPSUP
SPEEDBRAKEDOWN
WEATHER RADAROFF

SHUTDOWN

PARKING BRAKE	SET
WING ANTI-ICE	AUTO
NACELLE ANTI-ICE	OFF
ELECTRICAL POWER	AS REQUIRED
STABILIZER TRIM	6 UNITS
RUDDER & AILERON TRIMS	NEUTRAL
HYDRAULIC DEMAND PUMP SELECT	TORSOFF
FUEL CONTROL SWITCHES	CUTOFF
FUEL PUMP SWITCHES	OFF
BEACON	OFF
SEATBELT SIGNS	OFF
PACKS	AS REQUIRED
IRS ERROR	DETERMINE
TRANSPONDER CODE	VFR
EICAS STATUS DISPLAY	CHECK
GEAR BRAKE TEMPERATURE	CHECK
IRS MODE SELECTORS	OFF
WINDSHIELD PROTECTION	OFF
CHOCKS	IN PLACE

SHUTDOWN

HYDRAULIC PUMPS	OFF
PARKING BRAKE	
FUEL CONTROL SWITCHES	
FUEL PUMP SWITCHES	OFF
EXTERNAL POWER	AS REQUIRED

POWER-DOWN

	_
TRIM AIR SWITCH	
RECIRC FAN SWITCHES	OFF
HIGH FLOW SWITCH	OFF
GASPER FAN	OFF
COCKPIT HUMIDIFIER	OFF
PACK CONTROL SELECTORS	OFF
EXTERIOR LIGHTS	OFF
EMERGENCY EXIT LIGHTS	OFF
Land R UTILITY POWER SWITCHES	OFF
APU	OFF
FIRE DETECTION PANEL (after 2 min)	NORMAL
INTERIOR LIGHTS	OFF
STANDBY POWER SELECTOR	OFF
BATTERY SWITCH	



B747 series

November 2017

SPEED LIMITATIONS	IIASI
MANAUAL LANDING CROSSWIND	30
AUTOLAND CROSSWIND	25
AUTOLAND ONE ENGINE CROSSWIND	5
AUTOLAND HEADWIND	25
AUTOLAND TAILWIND	10
AUTOLAND CAT III CROSSWIND	10
MAX TURBULENT	
AIR PENETRATION>15000	
MAX LANDING GEAR, EXTENSION	270
MAX LANDING GEAR, EXTENDED	320
MAX FLAPS EXTENSION, FLAPS 1	280
FLAPS UP STALL SPEED	175
FULL FLAPS STALL SPEED	122

FLAPS EXTENSION SPEED (IAS)					
FLAPS 1					
FLAPS 5260					
FLAPS 10					
FLAPS 20					
FLAPS 25205					
FLAPS 30					

WEIGHTS (LBS)	
MIN ZERO FUEL (ZFW)	397.000
MAX ZERO FUEL (MZFW)	535.000
MAX TAXI (MTW)	877.000
MAX TAKE OFF GROSS (MTOG)	875.000
MAX LANDING (MLW)	630.000
MAX PAYLOAD	138.000
MIN LANDING FUEL, DOMESTIC	19.000
MIN LANDING FUEL, INTERNATIONAL	24.000

WEIGHTS IKG)	
MIN ZERO FUEL (ZFW)	
MAX ZERO FUEL (MZFW)	
MAX TAXI (MTW)397.800	
MAX TAKE OFF GROSS (MTOG)	
MAX LANDING (MLW)285.763	
MAX PAYLOAD	
MIN LANDING FUEL, DOMESTIC	
MIN LANDING FUEL, INTERNATIONAL10.886	

LANDING WIND RULE

Vref plus 1/2 steady headwind component plus full gust wind component - but not more than in total 20 kts.

AUTOBRAKE LADING DISTANCE

AUTOBRAKE	APPROACH SPEED (KIAS)								
SETTING	120	130	140	150	160	170	180	190	200
1	6300	7200	8100	9100	10300	11400	12600	14000	15300
2	5400	6000	6800	7700	8600	9500	10500	11600	12600
3	4800	5300	6000	6600	7500	8300	9100	10000	10900
4	4000	4600	5000	5600	6200	6800	7600	8300	9000
MAX AUTOBRAKE	3400	3800	4200	4600	5000	5500	6000	6600	7000

The distances are valid with or without reverse thrust and include 1200 ft of air distance. Tailwind adjustment per 10 knots:

Autobrake 1 -> +2050 | Autobrake 4 -> +1100 Autobrake 2 -> +1650 | Autobrake Max -> +800 Autobrake 3 -> +1400