

## Boeing 747-200 Freighter Normal Checklist

Iran Air Virtual Cargo

## Pre-Start Checklist

Parking Brake	SET
Throttle	IDLE
Fuel Flow	CUTOFF
BATT Master Switch	ON
Landing Gear Lever DOWN	CHECK
Flaps	UP
Spoiler RETRACTED	CHECK
Fuel Quantity	CHECK
Pitot Heat	OFF
De-Ice	OFF
Aircraft Lighting	OFF
Flight controls FREE AND CORRECT	CHECK
Fasten Seat Belts	ON
No Smoking Sign	ON
Elevator Trim TAKEOFF SETTING	CHECK
Avionics	ON
Check Weather (Atis, Flight Services)	CHECK
De-Ice	TEST/CHECK
<b><i>Request Clearance</i></b>	
Transponder	STANDBY
Beacon	ON

## Startup Checklist

Thrust Levers	IDLE
Engine Area	CLEAR
Engine Starting Sequence :	1 - 4 - 3 - 2
Eng 1 Start Switch	START
At N2 > 20% Fuel Flow Eng 1	ON
N1 increasing as N2 incr.	CHECK
Oil Pressure	CHECK
Repeat for Eng.	4 - 3 - 2
Aircondition fan	ON

## **Before Taxi Checklist**

Nav Lights	ON
Taxi Lights / Runway Turnoff Lights	ON
Heading Indicator/Altimeters	SET
Radios and Avionics FOR DEPARTURE	SET
Autopilot	SET, ARM, don't activate
Autothrottle	SET, ARM, don't activate
F/D	ON
Yaw Damper	ON
Autobrake	RTO

### ***Request Taxi Clearance***

## **Taxi Checklist**

Parking Brake	RELEASE
Brakes	CHECK during taxi
Directional Gyro / Turn Coordinator	PROPER IND. during turns
Artificial Horizon	ERECT during turns
Taxi to assigned runway	SPEED Max. 20 knots

## **Before Take-off Checklist**

Parking Brake	SET
Throttle	IDLE
Elevator Trim	SET for takeoff
Flaps	10 deg
Spoilers	RETRACTED
Flight Instruments	CHECKED
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 40% N1 let spool up  
Takeoff Thrust FULL or TO/GA  
Brakes RELEASE  
V1 = 150 KIAS (decision)  
Vr = 160 KIAS (rotate)  
Pitch 10 deg. nose up  
V2 = 170 KIAS (safety speed)  
At Positive Climb Rate Touch Brakes  
Landing Gear RETRACT  
At 185 KIAS (V2 + 15) RETRACT Flaps to 5 deg  
At 210 KIAS (V2 + 40) RETRACT Flaps to 1 deg  
At 235 KIAS (V2 + 65) RETRACT flaps up

## **Climb-out Checklist**

Throttle AS REQUIRED  
Trim for 250 KIAS / 1800 fpm  
Autopilot/Autothrottle CHECK and ACTIVATE  
Autobrake OFF  
Below 10000' max. speed 250 KIAS  
***ATC AS REQUIRED***  
Fasten Seat Belts OFF  
No Smoking Sign OFF  
Above 10000' speed 330 KIAS  
Landing Lights OFF

## **Cruise Checklist (above FL 180)**

At Transition Altitude (FL180) set Altimeter to 29,92" (1013mb)

Accelerate to cruise speed FL180 0.70 mach (336 KIAS)

FL240 0.77 mach (330 KIAS)

FL280 0.82 mach (326 KIAS)

FL330 0.85 mach (305 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 0.80 mach

to FL180 0.70 mach

At Transition Altitude (FL180) reset Altimeter to local

to FL120 300 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	220 KIAS
Landing Lights	ON
Flaps	1 degree
Speed: Establish	200 KIAS
Auto Spoilers	ARM
Autobrake	SET
Flaps	5-10 degrees
Speed: Establish	185 KIAS
Flaps	20 degrees
Speed: Establish	170 KIAS
Landing Gear	DOWN
Turning toward runway:	set flaps 25 degrees or FULL

### ***Final Glideslope Descent :***

Speed Establish	160 KIAS
Elevator Trim	AS DESIRED
Parking Brake	VERIFY OFF
De-Ice	AS REQUIRED

## **Landing Checklist**

Autoland	Available ?
Landing Gear	CHECK DOWN
Autopilot and Autothrottle	OFF
Landing Speed	150 KIAS
After touchdown Apply Reverse Thrust, at 60 kts: Cancel Reverse Thrust	
Spoilers	VERIFY EXTENDED
Brakes	AS REQUIRED
Autobrake	OFF

## **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	OFF
Runway Turnoff Lights	OFF
Nav Lights	OFF
F/D	OFF
Avionics	OFF
Fuel Flow	OFF
Beacon	OFF
BATT Master Switch	OFF

## **Securing Aircraft**

Parking Brake	Verify SET
Throttle	Verify IDLE
All Switches	Verify OFF