

### Pre-Start Checklist

Parking Brake	SET
Throttle	IDLE
BATT Master Switch	ON (Shift-M)
Panel Light	AS REQUIRED
Gear Lever	CHECK DOWN
Flaps	UP
Spoiler	RETRACTED
FMC	/ FSNAV Flight Plan GENERATE / LOAD / ACTIVATE – IF FMC IS AVAILABLE
Fuel Quantity	CALC / LOAD
Engine Instruments	CHECK
Aircraft Lighting	OFF
Flight controls	CHECK
Check Weather	(Atis, Flight Services)
Request Clearance	
Transponder	SET
Beacon	ON

### Startup Checklist

Thrust Levers	IDLE
Engine Area	CLEAR

Mode Selector IGN/START

Eng 1	starts immediately	
	at N2 = 20% Fuel Flow	ON
	Fuel Flow	CHECK
	N1 increasing as N2 incr.	CHECK

Eng 2	starts after Eng 1 is running	
	at N2 = 20% Fuel Flow	ON
	Fuel Flow	CHECK
	N1 increasing as N2 incr.	CHECK

Eng 3 starts after Eng 2 is running  
at N2 = 20% Fuel Flow ON  
Fuel Flow CHECK  
N1 increasing as N2 incr. CHECK

Eng 4 starts after Eng 3 is running  
at N2 = 20% Fuel Flow ON  
Fuel Flow CHECK  
N1 increasing as N2 incr. CHECK

## Before Taxi Checklist

Strobe Light ON  
Nav Lights ON  
Taxi Lights ON  
Heading Indicator/Altimeters SET  
Standby Instruments SET  
Avionics SET FOR DEPARTURE  
Autopilot SET and OFF  
FD ON  
Yaw Damper ON AS REQUIRED  
Autobrake RTO  
Elevator Trim SET for takeoff

*Request Taxi Clearance*

## Taxi Checklist

Passenger Signs ON  
Brakes RELEASED  
Taxi to assigned runway SPEED Max. 20 KIAS

## Before Take-off Checklist

Brakes SET  
Throttle IDLE

Flaps	Pos 2
Spoilers	RETRACTED
Landing Lights	ON
Engine Instruments, Nav Equipment	CHECK
Takeoff Data (V1, VR, V2)	CHECK
Request Takeoff Clearance	

## Take-off Checklist

Smoothly increase thrust to 40%	N1 let spool up
Takeoff Thrust	FULL or TO/GA
Brakes	RELEASE
V1 =	145 KIAS (descision)
Vr =	150 KIAS (rotate)
Pitch	10-15 deg. nose up
V2 =	160 KIAS (safety speed)
At Positive Climb Rate	Touch Brakes
Landing Gear	RETRACT
At 180 KIAS	RETRACT Flaps to Pos 1
At 210 KIAS	RETRACT flaps up

## Climb-out Checklist

Trim for	250 KIAS
Autothrottle	ARM
Autopilot	ON
Below 10000' max. speed	250 KIAS
Autobrake	OFF
<i>After 10000 feet</i>	
Taxi Lights	OFF
Landing Lights	OFF
ATC AS REQUIRED	
Above 10000' speed 280 KIAS	
Fasten Seat Belts	OFF ; if pilot feels necessary
No Smoking Sign	ON ; if pilot feels necessary

## Cruise Checklist (above FL 180)

At Transition Altitude (FL180)	set Altimeter to 29,92" (1013mb)
Accelerate to cruise speed	FL180 0.70 M 345 KIAS
	FL240 0.77 M 343 KIAS
	FL280 0.82 M 335 KIAS
	FL330 0.84 M 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
Descent Speed	to FL240 280 KIAS ; <i>unless given specific speed by ATC</i>
	to FL180 " " "
At Transition Altitude (FL180)	reset Altimeter to local
	to FL120 260 KIAS
	below 10'000ft 240 KIAS
Fuel Quantities and Balance	CHECK

## Approach Checklist

Localizer Level Flight :	
Fasten Seat Belts	ON
No Smoking Sign	ON
ND	OFF
LS	ON
Avionics + Radios	SET

Speed: Establish	210 KIAS
Landing Lights	ON
Auto Spoilers	ARM
Autobrake	SET
Flaps	Pos 1
Speed: Establish	180 KIAS
Flaps	Pos 2
Speed: Establish	160 KIAS
Landing Gear	DOWN
Turning toward runway: set flaps	Pos 3 / FULL

## Final Glideslope Descent :

Speed Establish	150 KIAS
Park Brakes	VERIFY OFF
Anti-Ice -	AS REQUIRED

## Landing Checklist

Landing Gear -	CHECK DOWN
Autopilot -	OFF
Autothrottle -	OFF and SPD Deactivated
Landing Speed -	150 KIAS
After Touchdown -	Apply Reverse Thrust
At 70 KIAS -	Cancel Reverse Thrust
Spoilers -	VERIFY EXTENDED
Brakes -	AS REQUIRED
Autobrake -	OFF

## Taxi to Ramp

Strobe Lights -	OFF
Flaps -	UP
Spoilers -	RETRACTED
Taxi Lights -	ON
Landing Lights -	OFF Taxi to Assigned Gate/Parking (Speed Max 20 knots)

Transponder -	1200
Elevator Trim -	TAKEOFF SETTING
Lights -	AS DESIRED

## Shutdown Checklist

Brake -	SET
Throttle -	IDLE
Passenger Signs -	OFF
Anti-Ice -	OFF
Taxi Lights -	OFF
Nav Lights -	OFF
Flight Director -	OFF
Avionics -	OFF
Fuel Flow -	CUTOFF
Beacon -	OFF
BATT Master Switch -	OFF (Shift-M)