

## **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 / FS COMMANDER Flight Plan GENERATE / LOAD /  
ACTIVATE  
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  
Mode Selector returns to NORM position

## **Before Taxi Checklist**

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

### **Take-off Checklist**

Smoothly increase thrust to 40% N1 let spool up  
Takeoff Thrust FULL or TO/GA  
Brakes RELEASE  
V1 = 145 KIAS (decision)  
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  
Autobrake OFF  
Taxi Lights OFF  
Landing Lights OFF  
Below 10000' max. speed 250 KIAS  
**ATC AS REQUIRED**  
Fasten Seat Belts OFF  
No Smoking Sign OFF  
Above 10000' speed 280 KIAS

### **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 0.75 M  
to FL180 0.68 M  
At Transition Altitude (FL180) reset Altimeter to local  
to FL120 300 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 Position 1

Speed: Establish 180 KIAS

Flaps Position 2

Speed: Establish 160 KIAS

Landing Gear DOWN

Turning toward runway: set flaps Position 3 / FULL

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

Speed Establish 150 KIAS

Park Brakes VERIFY OFF

## **Landing Checklist**

Landing Gear CHECK DOWN

Autopilot OFF

Autothrottle OFF

Landing Speed 145 KIAS

After touchdown Apply Reverse Thrust, at

60 KIAS: Cancel Reverse Thrust

Spoilers VERIFY EXTENDED

Brakes AS REQUIRED

## **Taxi To Ramp**

Taxi Lights ON

Flaps UP

Spoilers RETRACTED

Landing Lights OFF

Speed Max. 20 KIAS

Transponder OFF

Elevator Trim TAKEOFF SETTING

Lights AS DESIRED

## **Shutdown Checklist**

Brake SET  
Throttle IDLE  
Passenger Signs OFF  
Taxi Lights OFF  
Strobe Light OFF  
Nav Lights OFF  
FD / LS OFF  
Eng 1 Fuel Flow OFF  
Eng 2 Fuel Flow OFF  
Beacon OFF  
Panel Light OFF  
BATT Master Switch OFF

## **Securing Aircraft**

Parking Brake Verify SET  
Throttle Verify IDLE  
All Switches Verify OFF