

## AIRCRAFT AND SIMULATOR SETUP

1. Time / Weather / A/C Position ..... **As Chosen**  
     **--- IF FLYING ON IVAO ---**
  - a. A/C Position ..... **Free of other traffic**
  - b. IVAO Pilot Client ..... **Connect**
2. EFB > Home > Flight Details ..... **Import Simbrief Flight Plan**
3. Sidestick, Throttle, Rudders, External Monitor ..... **Connected**
4. MSFS Pop-Out Panel Manager ..... **Start Pop-Out**

## ELECTRICAL POWER UP

1. Battery ..... **On**
2. C1 & C2 ELEC Hydraulic Pumps ..... **OFF**
3. Hydraulic Demand Pumps ..... **OFF**
4. Wipers ..... **OFF**
5. LDG Gear ..... **DOWN**
6. ALTN Flaps ..... **OFF**  
     **--- Establish Electrical Power ---**
7. L & R BUS TIE ..... **AUTO**  
     **--- IF EXT PWR AVAIL ---**
  - a. PRIMARY & SECONDARY EXT PWR ..... **ON**
  - b. APU ..... **ON****--- IF NO EXT PWR AVAIL ---**
  - c. APU ..... **ON, then START**
8. PARKING BRAKE ..... **SET**

## OUTSIDE INSPECTION

1. Tires ..... **Check Condition**
2. Brake Pins ..... **Check not flush with boundary**  
     **--- IF MAINTANANCE REQUIRED ---**
  - a. EFB > Ground Operations > Ground Maintenance ..... **Perform**

**PRELIMINARY PREFLIGHT PROCEDURE**

1. Electrical Power Up ..... **Completed**
2. ADIRU ..... **ON**
3. EMER LIGHTS ..... **Guard Closed**
4. LWR CTR Display ..... **STAT page**
  - a. Hydraulic Quantities ..... **Verify Sufficient (no RF)**
  - b. APU Oil QTY ..... **Verify Sufficient (no RF)**
  - c. Messages ..... **Only Expected**
5. LWR CTR Display ..... **ENG page**
  - a. Oil QTY ..... **Verify Sufficient**
  - b. Flight < 6h: >= 17
  - c. Flight > 6h: >= 20
6. EICAS Messages ..... **Only expected**
7. Oxygen ..... **Test**
8. CHKL ..... **PREFLIGHT**

## FMC Setup

1. Menu > FMC > IDENT ..... **Check Information Correct**
  - a. A/C Type
  - b. Engine Type
  - c. NAV DATA Cycle
2. POS INIT ..... **Copy GPS Pos into Inertial Pos**
3. ROUTE > Route Request ..... **Select desired route**
  - a. SET PAYLOAD
  - b. SET FUEL
4. SELECT RTE ..... **Wait for Uplink**
  - a. ROUTE UPLINK ..... **Load (Takes some time)**
  - b. ACTIVATE > EXEC
5. FS Actions ..... **Set Desired PAX and CARGO**
6. DEP ARR ..... **Enter Departure and Arrival**
7. LEGS > PREV PAGE until DISCONTINUITY > Last WP that is part of route
8. RTE ..... **RTE COPY**
9. LEGS ..... **Verify DEP, Route, and ARR correct**
  - a. Be aware that SPEED restrictions without ALT restrictions will be missing from procedure
  - b. WP180/25 ..... **Waypoint WP at Radial 180 for 25 NM**
10. LEGS > RTE DATA (ND no PLAN mode) ..... **WIND DATA LOAD, then EXEC**
11. FMC COMM > UPLINK DES FORECAST ..... **LOAD**
12. PROG ..... **Compare shown ground distance to planned distance**
13. RTE page > NEXT PAGE ..... **Compare Uplinked route to flight plan**
14. NAV RAD ..... **Frequencies as desired**
15. FIX ..... **Draw visual helpers**
  - a. MSA around aerodrome
  - b. Others according to procedures
16. VNAV ..... **Check TA**
17. INIT REF > PERF INIT > PERF INIT DATA ..... **ACCEPT**
  - a. Uplinks Reserves, Cruise Level, and Cost Index
  - b. Min Fuel Temp ..... **Verify (JetA1 -44Â°C, JetA -37Â°C)**
  - c. CRZ CG can be left at 7.5% or set to 30%

## COCKPIT PREPARATION

1. BROADBAND SYSTEM SWITCH ..... Guarded
2. ADIRU Switch ..... ON
3. THRUST ASYM COMP ..... AUTO
4. PRIMARY FLIGHT COMPUTERS ..... Guarded & OFF light extinguished
5. BATTERY ..... ON
6. IFE/PASS Switches ..... ON
7. APU GEN ..... ON
8. APU Switch ..... ON & OFF light extinguished
9. L & R BUS TIE ..... AUTO
10. EXT PWR ..... As Needed
11. GEN ..... ALL ON
  - a. DRIVE DISC Switches ..... Guarded & up
12. VOICE RECORDER ..... ON
13. EMER LIGHTS ..... Armed & Guarded
14. SERV ITPH ..... OFF
15. WINDOW HEAT ..... ON
16. RAM AUR Turbine SW ..... Guarded
17. HYD ENG PUMPS L & R ..... ON
  - a. Remaining Pumps ..... OFF
18. NO SMOKING / NO ELECTRONICS ..... AUTO
- AFTER REFUELING COMPLETED --**
19. SEAT BELTS ..... ON
20. Flight Deck lights ..... As Needed
21. LANDING Lights ..... OFF
22. CARGO FIRE SW ..... Not Armed
  - a. DISC SW ..... Guarded
23. ENGINE EEC MODE ..... Norm & Guarded
24. START PANEL ..... Norm for both engines
  - a. AUTOSTART SW ..... ON
25. FUEL JETTISON NOZZLES ..... OFF & Guarded
  - a. FUEL TO REMAIN ..... Pushed In
  - b. ARM SW ..... Disarm
26. Fuel Pumps ..... OFF
  - a. CROSSFEED ..... OFF
  - b. L FWD pump feeds APU
27. ANTI-ICE ..... AUTO
28. OUTSIDE Lights

**--- DAYLIGHT ---**

a. NAV

ON

## TAKEOFF PERFORMANCE CALCULATION

1. LWR ECAM > COMM > Flight Information > TWIP Request **Get Current Weather**
2. ZFW & TO CG ..... **MENU > FS ACTIONS > PAYLOAD**
3. EFB > Performance Tool > Take Off ..... **Calculate TO Performance**
  - a. Verify RWY Length Correct
4. FMC > THRUST LIM
  - a. Select RTG (Take Off Rating)
  - b. Enter Sel Temp
  - c. Check D-TO N1 close to %N1 from Performance Calculation
  - d. CLB Rating will match N1 (keep default selection) (CLB 1 = 10% reduction -> for 90% or more)
5. PERF ..... **Enter GR WT and ZFW**
6. TAKEOFF ..... **Enter Flaps & TO CG**
  - a. V Speeds ..... **Verify and Enter (EFB has precedence)**
  - b. GR WT ..... **Crosscheck**
  - c. NEXT PAGE ..... **Verify ACCEL HT**
7. CAPT TAKEOFF page, F/O LEGS page

## BEFORE START

1. APU ..... **Verify Running**
2. EXT PWR ..... **Disconnect & Remove**
3. PARKING BRAKE ..... **Verify Set**
4. Chocks ..... **Removed**
5. GND Equipment & Vehicles ..... **Released**
6. Doors ..... **Closed & Armed**
7. MCP ..... **Enter V2, RWY HDG, INIT CLIMB**
- IF ROUTING CAN BE FLOWN COMPLETELY VIA FMC ---**
  - a. LNAV & VNAV ..... **Activate**
8. GND Crew clear of aircraft ..... **Pressurize Aircraft**
  - a. R ELEC Demand Pump ..... **AUTO**
- ONCE FAULT LIGHT EXTINGUISHED ---**
  - b. Remaining Demand Pumps & C1 & C2 ELEC Pumps ..... **On**
9. FUEL PUMPS ..... **ON**
  - a. CENTER PUMPS only if EICAS message "FUEL in CTR"
10. TRIM ..... **Set**
11. Transponder ..... **XPNDR**
12. CHKL ..... **Before Start**
13. Push and Start Clearance ..... **As Required / Obtained**
14. Beacon ..... **ON**
15. Off-Block Time ..... **Noted**

## PUSHBACK AND ENGINE START

1. Pushback ..... **Follow Instructions**
2. Engine L & R ..... **Start**
  - a. ENG START Selector ..... **START**
  - b. FUEL CUTOFF SW ..... **RUN**
  - c. Start Completed Once Red EGT Line Disappears

## BEFORE TAXI

1. APU ..... OFF
2. ENG ANTI-ICE ..... As Required / ON
3. Flaps ..... TO
4. Flight Controls ..... Checked
5. CHKL ..... Before Taxi
6. TAXI Lights ..... ON
7. RUNWAY TURNOFF Lights ..... ON
8. Taxi Clearance ..... As Required / Obtained
9. Brakes ..... Checked

### --- AT HOLDING POINT ---

10. STROBE Light ..... ON
11. WXR & TERR ..... CAP & F/O
12. Transponder ..... TCAS TA/RA
13. CHKL ..... Before Takeoff
14. TAXI & TURNOFF Lights ..... OFF
15. Landing Lights ..... ON

### -- CLEARED FOR TAKEOFF --

16. Start Time ..... Noted
17. Chronometer ..... ON

## TAKEOFF

1. N1 ..... 55% (extension of EGT gauge)

### --- ONCE ENGINES STABILIZED ---

2. TOGA ..... Push
3. Forward column pressure until 80 kts
4. Rotate at around  $2\hat{A}^\circ$  -  $2.5\hat{A}^\circ$  (one stripe) per second until  $15\hat{A}^\circ$  pitch
5. Autopilot at 200ft AGL
  - a. 80 kts ..... HOLD
  - b. 50 ft ..... LNAV
  - c. 400 ft ..... VNAV

## AFTER TAKEOFF

1. ENG & WING Anti-Ice ..... **AUTO**
2. CHKL ..... **AFTER TAKEOFF**
3. VNAV page ..... **Open**
4. HDG Bug ..... **Synchronize**
5. Once TO Thrust Over ..... **CHRONO Off**

## CLIMB

1. at 10000 ft
  - a.