

FBW A380X

STANDARD OPERATING PROCEDURES

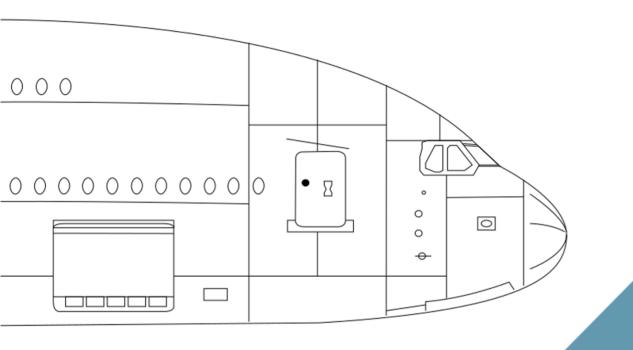




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PRELIMINARY COCKPIT PREPARATION

FOR SIMULATION PURPOSES



Initial Power Up

Engines
FO ENGINE MASTER SWITCHES 1, 2, 3, 4
FO ENGINE STARTER
Wipers
FO BOTH WIPERS
Batteries
FO ALL BATTERIES (BATTERY 1, ESSENTIAL BATTERY, BATTERY 2, AUXILIARY POWER UNIT BATTERY)
External power
 If the AVAIL lights illuminate on the overhead panel: FO EXTERNAL POWER (2, 3, 1, 4)
Cockpit lighting
BOTH COCKPIT LIGHTS

Display, Engine Warning Display, and System Display.



Initial Onboard Information System Power Up

Laptops startup
BOTH CAPTAIN & FIRST OFFICER LAPTOPS
FO BACKUP LAPTOP
Keyboard and Cursor Control Unit (KCCU)
BOTH CONTROL DEVICE AND KEYBOARDs 1 AND 2
Onboard Information System Applications Initialization
BOTH ONBOARD INFORMATION TERMINAL
BOTH LOGIN AS PILOT
BOTH ONBOARD INFORMATION TERMINAL SIDE
BOTH LOGIN AS PILOTPERFORM
BOTH NAV CHARTS
BOTH OPS LIBRARY START
Company communications initialization
FO OIT SIDE
Note: Send Initialization after checking the input data and display data.
Note: Check Uplink message: CAT Recency, Full Thrust Recency And Statement Of Work Index Range.
Note: Statement Of Work Index Range is included for a month only if it is changed.
FLT OPS application status
FO OIT SIDE



Aircraft Status Verification

Previous ECAM alerts
CAPT RCL
CAPT CLEARED or CANCELLED ALERTS
Logbook verification
CAPT OIT SIDE
CAPT MEL/CDL ITEMS
Minimum Equipment List (MEL)/Configuration Deviation List (CDL) items check
CAPT OIT SIDE
BOTH MEL/CDL ITEMS
Aircraft acceptance
Aircraft acceptance
CAPT OIT SIDE
CAPT OIT SIDE. CAPT AIRCRAFT ACCEPTANCE. Verify that the VHF3 Data mode is active and then, in the flight acceptance report, sign the acceptance. Note: The aircraft acceptance can be signed later but has to be before the end of the Cockpit Preparation. Fire tests and APU startup Radio management panels (RMP) startup FO RMP 1 and 2. Switch on both the radio management panels (RMP), situated on the pedestal.
CAPT OIT SIDE. CAPT AIRCRAFT ACCEPTANCE. Verify that the VHF3 Data mode is active and then, in the flight acceptance report, sign the acceptance. Note: The aircraft acceptance can be signed later but has to be before the end of the Cockpit Preparation. Fire tests and APU startup Radio management panels (RMP) startup FO RMP 1 and 2.



Auxiliary Power Unit and Engine fire test

Note: The pilots should perform the fire tests when the auxiliary power unit is available. FO APU FIRE
FO APU AGENT OFF
FO ENGINE 1(2)(3)(4) FIRE
FO ENGINE 1(2)(3)(4) AGENT 1 and 2
FO FIRE TEST PRESS
The pilots maintains the TEST pushbutton pressed throughout the test. TEST RESULT:
Verify that the fire detection systems and extinguishing systems are functional by checking the following items: a constant repetitive chime sound, the master warning light flashes on the glareshield, the ECAM displays the engine fire alert messages (ENG 1(2)(3)(4) FIRE, APU FIRE, MLG BAY FIRE), All engine fire pushbutton and the auxiliary power unit fire pushbutton displays in red, the squib light of the engine and apu agent pushbuttons are illuminated, the disch light of the engine and auxiliary power unit agent pushbuttom illuminates and all fire lights on the engine master panel illuminates.
Auxiliary Power Unit start
FO APU MASTER SWITCH
FO APU START
Ensure that the APU flap is fully open by looking on the auxiliary power unit page on the system display.
Electrical supply
FO EXTERNAL POWER



Flight Plan Preparation

Flight Management System / Onboard Information System FLT OPS system

The pilot initializes the onboard information system entering the following information: departure and arrival airport (FROM/TO) and flight number. Please note, the onboard information system can be initialized automatically from the flight management system. This also enables the automatic initialization of the FLT OPS application (Performance and navigation charts), the aeronautcal operation control (AOC), and the logbook.

_	If the company flight plan is received via ACARS:
	FO AIRCRAFT STATUSCHECK
	In the DATA/STATUS page of the flight management system, verify the engine type, the aircraft type, the active database validity period, the pilot stored elements. Take close attention to the waypoint, navaids, route, and runway. Verify if they are following the flight plan.
	FO RECEIVED COMPANY FLIGHT PLAN
	FO FLIGHT NUMBER and DEPARTURE/ARRIVAL
	BOTH OIT SIDE
	BOTH FLT OPS STSSELECT
	BOTH FLT OPS STS
•	If the company flight plan is not received via ACARS:
	BOTH OIT SLIDE
	BOTH FLT OPS STSSELECT
	FO FLIGHT NUMBER and DEPARTURE/ARRIVAL
	FO FLT OPS STS page
<u>Preli</u>	minary takeoff performance determination
	recommended to consider the environmental conditions as well as the aircraft condition when computing the formance data.
	OTH T.O PERF
BC Use	OTH AIRFIELD DATA



If dispatch under MEL or CDL and in accordance with the logbook:	
	BOTH MINIMUM EQUIPMENT LIST ITEMS
	BOTH CONFIGURATION DEVIATION LIST ITEMS
	BOTH ONBOARD INFORMATION SYSTEM PRELIMINARY TAKEOFF PERF
	Verify in the takeoff performance application the estimated departure conditions like the runway selection and the runway characteristics. It is recommended to take into account any NOTAM emitted to the airport. Then, insert the outside conditions, the minimum equipmeent list/configuration deviation list items, and the aircraft configuration in the appropriate panels. Verify the takeoff weight and then launch the computation and review the result.

COCKPIT PREPARATION

FOR SIMULATION PURPOSES



Overhead Panel

White lights

 When scanning the overhead panel:
FO ALL WHITE LIGHTS
 Note: - This procedure may be based on operator policy. During cockpit preparation, the GND CONNECTION and the REMOTE C/B CTL on the maintenance and maintenance electrical panel respectively can be kept ON as long as maintenance personnel are on site using the portable maintenance access terminal (PMAT) for maintenance purposes. - While scanning the overhead panel during this procedure, check that the only amber lights are the GEN FAULT lights.
Recorder
FO RCDR GND CTL
EVAC
FO CAPT/CAPT & PURS
Probe & window heat
FO PROBE & WINDOW HEAT
Air Data Inertial Reference System (ADIRS)
FO ALL IR MODE
Note: It is recommended ensuring that at least one inertial reference system remains operative when a refuel operation is in progress.
Emergency Locator Transmittor (ELT)
FO ELTARMED



Reset panel

FO RESET BUTTONS (Left side)
Exterior lighting
FO STROBE
Passenger signs
FO SEAT BELTS
FO EMER EXIT LightARM
Engine starter
FO ENGINE STARTNORM
Air conditioning
PF APU BLEED
PF XBLEED
FO AIR FLOW
FO CKPT AS REQUIRED It is recommended setting the temperature to approximately 21.5° C.
FO CABIN



Electrical	systems
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the NORM position.

FO ELEC DC SD PAGE
FO ALL BATTERY (BATTERY 1, ESSENTIAL BATTERY, BATTERY 2, and APU BATTERY) .
OFF then ON
Verify that after resetting all the batteries to ON , the current charge of each battery is below 60 A. It should also decrease.
Fuel system
FO TRIM TK FEED
Maintenance panel
FO ALL LIGHTS
Cargo air conditioning
FO CARGO AIR COND selectors
Radio management panel (RMP) 3
FO RADIO MANAGEMENT PANEL 3
FO STBY RAD NAV key
Cockpit voice recorder (CVR)
FO CVR TEST
Reset panel
FO RESET BUTTONS (Right side)
Main Instrument Panel
Switching
FO SWITCHING selectors



Integrated Standby Instrument System (ISIS)

FO INTEGRATED STANDBY INSTRUMENT SYSTEM
Landing gear gravity system
FO L/G GRVTY
Clock
FO CLOCK
Anti-Skid
FO A-SKID
Pedestal
Parking brake
FO PARKING BRAKE
Body accumulators pressure
FO BODY ACCUMULATORS PRESSURE
Engines settings
FO THRUST LEVERS.IDLEFO THRUST REVERSER LEVERS.STOWEDFO ENGINE MASTER 1, 2, 3 AND 4.OFF
FO THRUST REVERSER LEVERSSTOWED



Air Traffic Control Communication

On the MFD ATC COM/MSG RECORD page:
FO MESSAGE RECORD
On the MFD ATC COM/CONNECT/CONNECTION STATUS page:
If ADS services are expected:
FO ADS CHECK ARMED
Air Traffic Control Clearance
FO ATC CLEARANCEOBTAIN
It is recommended obtaining the air traffic control clearance at this moment.
FO NAVIGATION CHARTS CLIPBOARD
MultiFunction Display Surveillance
BOTH SURV DEFAULT SETTINGS. SELECT Verify on the multi function display surveillance control page that the transponder is set to AUTO , the squawk code is the same, the TCAS is set to TA/RA and Norm , all TAWS modes are ON , and the weather radar is set to AUTO , the elevation/tilt to AUTO , Mode set to WX , TURB set to AUTO , GAIN set to AUTO , WX ON VD set to ON and PRED W/S to AUTO)
Flight Management System Initialization
Flight plan
FO FLIGHT PLAN INITIALIZATION
Winds predictions
WINDS ENTER AS APPROPRIATE It is recommended to use the forcased wind from the computerized flight plan.
Inertial Reference System
- If the GPS is available: FO IRS 1, 2, and 3
voiny that the fixe are aligned of in alignment in the FOSITION/INS page of the hight management system.



If the GPS is not available, or is failed: FO IRS 1, 2, and 3
Departure selection
FO DEPARTURE. SELECT/CHECK Verify that the departure is selected. Ensure the correct runway, SID, and TRANS in the departure page of the flight management system.
Navaids
PF NAVAIDS
PF NAVAID DESELECTION
Fuel and payload
FO ZFW/ZFWCG
FO BLOCK FUELINSERT
CAUTION Some speeds are displayed on the primary flight display are based on the ZFW and ZFWCG. If expected values are entered, the captain has the responsibility to insert the actual values.
The fuel will be automatically redistributed. If the refuel is not completed, pilot can enter expected values for prediction. However, it's the captain's responsibility to insert the actual values whenever the captain get the data.
FO RTE RSV/FINAL
FO MIN FUEL AT DEST
Takeoff performance
FO PRELIMINARY TAKEOFF PERF DATA
FO V1, VR and V2 INSERT
FO TOGA/FLEX/DERATEDSELECT/INSERT
FO FLAPS SELECT
FO ANTI-ICEINSERT
FO THRUST REDUCTION/ACCELERATION ALTITUDESET or CHECK
FO NOISE PROCEDURE
FO TRANS ALTITUDE
FO EO ACCEL ALTITUDESET or CHECK



Both pilots insert the navigation charts to the clipboard.

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Climb performance FO | DERATED CLIMB..... INSERT AS APPROPRIATE Select the appropriate derated climb in the climb page of the active performance page of the flight management system. **Speed preselection** On the climb and cruise panel of the active performance page of the flight management system: FO | PRESEL SPEEDS..... AS REQUIRED Active flight plan verification FO | COMPUTERIZED FLIGHT PLAN......ACCESS It is recommended the use of the computerized flight plan from the electronic flight folder as reference fro the route and fuel predictions. FO | ACTIVE FLIGHT PLAN..... CHECK and COMPLETE AS APPROPRIATE First, perform a verification to the waypoints, routes, departure, arrival, and vertical climb speed limit or constraint. Then, modify the active flight plan if appropriate. Verify the total distance calculated by the flight plan, and ensure that it is similar to the computerized flight plan. Secondary flight plan FO | SECONDARY FLIGHT PLANS..... AS APPROPRIATE It is recommended the use of secondary flight plans. Secondary flight plan should be used to anticipate a runway change, an immediate return, or an emergency landing to the nearest airport. However, the pilot must ensure that any past secondary flight plans are deleted. Route summary FO | ROUTE SUMMARY......VERIFIED Verify the route summary in the route page of the data section from the flight management system. Flight Management System CAPT | FMS INITIALIZATION......CROSSCHECK It is recommended verifying the information, such as the airfield data, the status of the IRS alignment, the fuel and payload data, the takeoff performance, and the flight plan. **Navigation charts clipboard**

CAPT | NAV CHARTS CLIPBOARD...... IMPORT



Glareshield

Cockpit lighting		
BOTH INTEGRAL LIGHTS		
Loudspeaker		
BOTH LOUDSPEAKER		
Barometric reference		
BOTH BAROMETRIC REFERENCE		
Note: The pilot may notice a difference of 0.01 inHg between the QNH value for the primary flight displays and the integrated standby instrument system. However, this does not impact the altitude computation.		
Electronic Flight Instrument System Control Panel		
BOTH NAVIGATION DISPLAY MODE AND RANGE		
BOTH WEATHER RADAR		
Auto Flight System Control Panel		
FO FLIGHT DIRECTOR		
FO NORTH REF		
FO SPD/MACH, HDG / TRK, V/S / FPA windows		
FO ALT window		
CAPT AUTO FLIGHT SYSTEM CONTROL PANEL		



the takeoff. It should also outline any other operational risks.

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Lateral Consoles

Oxygen mask test

It is mandatory to test the oxygen masks. To do it, simply verify that the oxygen mask blinker turns yellow, and that you can hear a flow of oxygen via the loudspeaker.

	_	On the RMP:
		BOTH INT/RAD
	_	On the mask stewage box:
		BOTH OXYGEN MASK TESTPERFORM
	_	On the DOOR SD page:
		REGUL PR LO indication
SI	lidi	ing windows
		OTH SLIDING WINDOWS
		Takeoff Briefing
		T TAKEOFF BRIEFING

BEFORE PUSHBACK OR START

FOR SIMULATION PURPOSES



Loadsheet Verification

Loadsheet

BOTH FINAL LOADSHEET			
BOTH FUEL ON BOARD			
FO ZFW/ZFWCG			
CAPT ZFW/ZFWCG			
BOTH LOADSHEET TOCG AND ECAM GWCG			
BOTH ECAM GWCG			
If within the operational limits:			
FO THS FPR_ in FMS ACTIVE/PERF page			
CAPT THS FOR_ in FMS ACTIVE/PERF page			
CAPT FINAL LOADSHEET SIGN and EXPORT			
If the ECAM GWCG is not within the operational limits:			
FO AUTO GND XFR			
limited by time, you can manually stop the automatic ground transfer, if the ECAM center of gravity is within			
limited by time, you can manually stop the automatic ground transfer, if the ECAM center of gravity is within operational limits. Note: The Loadsheet application shows the amount of fuel that should be transferred to be within the			
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Takeoff data

BOTH OIS FINAL TAKEOFF PERFORMANCE		
FO FMS TAKEOFF DATA		
CAPT REVISED FMS TAKEOFF DATA		
 In accordance with airlines policy or if required by operational regulation: 		
FO FINAL TAKEOFF PERFORMANCESTORE IN CURRECT ELECTRONIC FLIGHT FOLDER		
Seating position		
BOTH SEATS, SEAT BELTS, HARNESSES, RUDDER PEDALS, ARMRESTS ADJUST The pilot eyes should be in line with the red and white ball.		
Head up display		
CAPT HEAD UP DISPLAYDEPLOY		
CAPT HEAD UP DISPLAY knob		
CAPT DISPLAY MODE		
Multi function display		
BOTH MFD		
External power		
BOTH EXTERNAL POWER		
CAPT EXTERNAL POWER DISCONNECTION		
Low pressure ground cart		
BOTH LOW PRESSURE GROUND CARTS		
Before start checklist down to the line		
BOTH BEFORE START CHECKLIST down to the line		



When Cleared for Start

At pushback or start up clearance		
FO PUSHBACK/START UP CLEARANCE		
Video camera		
BOTH TAXI VIDEO		
Windows and doors		
BOTH WINDOWS AND DOORS		
Exterior lights		
CAPT BEACON		
Thrust levers settings		
CAPT THRUST LEVERS		
Parking brake and nosewheel steering		
If pushback is not required: CAPT PARK BRAKE		
CAUTION In the case of the ECAM not displaying the ECAM message "N/W STEER DISC" memo, but the ground crew confirms that the tow pin is in the towing position, do not proceed to the pushback		
Follow the instructions of the ground crew. Set the parking brake when needed.		
Before start checklist below the line		
BOTH BEFORE START CHECKLIST below the line		

ENGINE START

FOR SIMULATION PURPOSES



Engine Start

The engin	ENGINE START selector		
 If no "ENG 2(3) REVERSER FAULT ECAM" ECAM alert appears: 			
CAPT S Note:	START ENGINES 1 and 2		
CAPT ENGINE MASTER 1, then 2			
Note:	It is recommended to monitor the engine parameters. However, callouts are not mandatory.		
<u>Note:</u>	The engine vibrates at the start. The tolerance of excess for the N2 vibrations are 5 units over the limit. However, this is only tolerated on a short amount of time and only during the start sequence. This is due to thermal stabilization of the engine.		
<u>Note:</u> when the	The full authority direct engines control (or FADEC) will automatically crank the engine for 20 seconds N2 level reaches 20 %		
• Whe	en the engine reaches idle (I.e. AVAIL appears on the engine warning display):		
CAPT ENGINE IDLE PARAMETERS			
CAPT E	ENGINE MASTER 3 then 4		
– If EN	NG 2(3) REVERSER FAULT ECAM alert appears:		
CAPT ENGING START selector			
C T	When XX appears on ENG parameters: CAPT ENG START selector		
• If	FENG 2(3) REVERSER FAULT ECAM alert no longer appears after 10 s :		
	CAPT ENGINES 1 and 2		
	CAPT ENGINES 3 and 4		

AFTER START

FOR SIMULATION PURPOSES



After Start

Engine start selector		
CAPT ENGINE START selector		
Note: It is recommended to wait 3 minutes before taking off to prevent thermal shock.		
Bleed system		
CAPT AUXILIARY POWER UNIT BLEED		
Engine Anti-Ice system		
CAPT ALL ENGINE ANTI-ICE		
The pilot must perform the ice shedding procedure. So, engine run-up must be performed at least every 30 minutes of the taxi time, and before taking off. To make an engine runup, set the parking brake to ON, then increase the thrust to 60% of N1 on two symmetric engines. Then, proceed to the last two engines.		
CAUTION If the aircraft starts to move, abort the engine run-up procedure. Then, when the aircraft is stationary, redo the procedure, but only one engine at the time.		
Auxiliary Power Unit		
CAPT APU MASTER SWITCH		
Ground spoilers		
FO GROUND SPOILERS		
Rudder trim		
FO RUDDER TRIM		
Flaps		
FO FLAPS		



Pitch trim

FO PITCH TRIM
ECAM STATUS
BOTH ECAM STATUS
Ground crew
CAPT CLEAR TO DISCONNECT
"N/W STEER DISC" ECAM message
CAPT N/W STEER DISC MEMO
Fligth controls verification
Fligth controls verification BOTH FLIGTH CONTROLS
BOTH FLIGTH CONTROLS

TAXI

FOR SIMULATION PURPOSES



TAXI

To acknowledge a ramp coordinator signal, turn the turnoff lights ON then OFF.

Air Traffic Control Clearance			
FO TAXI CLEARANCE			
External and taxi aid camera system (ETACS)			
BOTH TAXI			
Airport navigation			
It is recommended to always have direct external visuals to taxi around an airport.			
BOTH NAVIGAT DISPLAY RANGE selector			
Exterior lights			
CAPT NOSE LIGHTS			
CAPT RWY TURN OFF & CAMERA			
Parking brake			
CAPT PARKING BRAKE			
Thrust Levers			
CAPT THRUST LEVERS			
Brakes			
CAPT BRAKES			
CAUTION The first brake application when the aircraft was parked in a wet condition for an extended period may affect effectiveness.			

It is recommended to verify the brakes by pressing smoothly the brake pedals and release. It is recommended to have a taxi speed between 10 to 20 knots in a straight line. If the speed is exceeded, brake until it reaches 10 knots, than let the aircraft accelerate again. It is recommended to be between 8 and 10 knots in a sharp turn.



Nosewheel steering

CAPT NOSEWHEEL STEERING	
it is recommended to have amount and progressive input. I lease note that the maximum steem	ig ungle is 70.
Air traffic control clearance	
FO ATC CLEARANCE	CONFIRM
Takeoff data	
Update the takeoff data if the runway has been changed.	
TAKEOFF DATA COMPUTATION	
 If multiple runway selection was used: 	
FO T.O PERF	ACCESS
FO SELECTED RUNWAY AND INPUT DATA	
FO TAKEOFF DATA	CHECK
If takeoff conditions have changed:	
FO T.O PERFORMANCE	ACCESS
FO NEW RUNWAY/NEW CONDITIONS	ELECT/ENTER
FO TAKEOFF PERFORMANCE	COMPUTE
CAPT TAKEOFF PERFORMANCE RESULTS	CROSSCHECK
IN THE FMS ACTIVE/PERF PAGE	
In the case of ATC clearance or takeoff change:	
FO TAKEOFF PERFORMANCE DATA	nance computation. tem, as well as the
FO V1, VR AND V2	UPDATE
FO FLEX TAKEOFF TEMPERATURE	
FO FLAPS	UPDATE
CAPT FLIGHT MANAGEMENT SYSTEM UPDATES	CROSSCHECK
CAPT FLAPS LEVER	APPROPRIATE



Auto Flight System/Flight instrument

 If runway change or different air traffic control clearance:
FO FLIGHT PLAN (SID, TRANS)
FO INITIAL CLIMB SPEED AND SPEED LIMIT
FO CLEARED ALTITUDE
FO HEADING
FO FLIGHT DIRECTOR
BOTH PRIMARY FLIGHT DISPLAY / NAVIGATION DISPLAY
BOTH Multi Funciton Display
Takeoff briefing
PF TAKEOFF BRIEFING
Autobrake
FO RTO
Air Traffic Control
FO ATC CODE



Final verification

FO TO CONFIG
FO T.O MEMO
BOTH CABIN
Before takeoff checklist down to the line
BOTH BEFORE TAKEOFF CHECKLIST down to the line

BEFORE TAKEOFF

FOR SIMULATION PURPOSES



Before Takeoff

Takeoff or line-up clearance
FO TAKEOFF OR LINE UP CLEARANCE
Cabin crew
FO CABIN CREW
Packs
FO PACKS 1 and 2
Exterior lights
FO EXTERIOR LIGHTS
ETACS
- If the ETACS was used during the taxi: BOTH TAXI
Electronic Flight Instrument System Control Panel
BOTH NAVIGATION DISPLAY RANGE
AS REQUIRED
It is recommended setting the weather radar on the pilot in command side, and the terrain radar on the pilot monitoring side.
BOTH TRAF
Before entering the runway
BOTH APPROACH PATH
FO STROBE
BOTH TAKEOFF RUNWAY
Confirm the correct runway by observing runway markings, runway lights, an ILS signal, and the runway symbol on the navigation display.



Sliding table

BOTH SLIDING TABLE
TCAS
FO TA
Before takeoff checklist below the line
BOTH BEFORE TAKEOFF CHECKLIST below the line

TAKEOFF



Takeoff

Thrust settings

It is recommended performing rolling takeoff.
PF TAKEOFF
 If the crosswind is at, or below 23 kt, and there is no tailwind:
PF BRAKES
PF THRUST LEVERS
 If the crosswind is above 23 kt, and/or in the case of tailwind:
PF BRAKES
PF THRUST LEVERS
At 20 kt ground speed:
PF THRUST LEVERS
PM CHRONOMETER
PF DIRECTIONAL CONTROL
PM PRIMARY FLIGHT DISPLAY / NAVIGATION DISPLAY
Note: The lateral mode isn't displayed until the aircraft lifts off, unless an ILS is tuned with the associated departure runway.
<u>Note:</u> If the message "GPS PRIMARY LOST" appears, verify on the navigation display the flight management system the position (As exemple, on the runway centerline).
PM TAKEOFF THRUST
Before reaching 80 knots
PM THRUST SET
PM PRIMARY FLIGHT DISPLAY and ENGINE indications



At 100 knots It is recommended rejecting the takeoff under 100 knots. However, rejecting takeoff above 100 knots is a more serious case. At V1 speed At VR speed If the pilot uses the head up display, at VR speed, initiate the rotation to bring the inverted T toward the horizon line. When lifting off, fly as indicated on the velocity vector and follow the SRS using the flight path director. If the pilot does not use the head up display, the pilot will then rotate toward a pitch attitude of 12,5°, or 10° if an engine is failed. After the liftoff, it is recommended to follow the SRS pitch command bar. Please note, if the NAV mode is armed, it will automatically engaged at 30 feet. If not armed, the RWY TRK engages automatically at 50 feet. When positive climb The pilot monitoring must announce "positive climb" only when the vertical speed value is positive and the radio altitude has increased. It is recommended to engage either autopilot 1 or autopilot 2 above 100 feet above ground level. At the thrust reduction altitude The cruise system display page will replace the engine system display page when the aircraft reaches 1 500 feet, or when reaching the thrust reduction altitude. Above the acceleration altitude – At F speed: Note: For takeoffs in CONFIG 1+F, F speed does not appear. – At S speed:



PM FLAPS ZERO	SET
PM EXTERIOR LIGHTS	SET
PM GROUND SPOILERS	. DISARM

AFTER TAKEOFF



The checklist can be found on the document "FBW A380X Checklist".

After Takeoff

Auxiliary Power Unit
 If the auxiliary power unit was used to supply the air conditioning: PM AUXILIARY POWER UNIT BLEED
TCAS
If the takeoff was performed with TA ONLY mode: PM TA Mode
Anti-Ice protection
PM ANTI-ICE
Sliding table
BOTH SLIDING TABLE
After takeoff/climb checklist down to the line
BOTH AFTER TAKEOFF/CLIMB CHECKLIST down to the line

CLIMB



Initial climb

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Climb

PF Cruise Flight Level
Note: If required the use of the best speed and best rate of climb for long term situation, the speed must be between the green dot speed and the econ speed. When flying at high altitude, an acceleration can take some time.
Note: The airspeed can be below the green dot at high altitude, depending on the mach speed selected or computed by the flight management system.
After takeoff/climb checklist below the line
BOTH AFTER TAKEOFF/CLIMB CHECKLIST below the line
Anti-Ice protection
PM ANTI-ICE
At 10 000 feet
PM LANDING LIGHT
BOTH Electronic Flight Instrument System OPTIONS
PM ECAM MEMO
- On pilot in command request or approved by the pilot in command: PM NAVAIDS
The pilot can clear the tuned NAVAIDS in the TUNED FOR DISPLAY panel of the POSITION/NAVAIDS page. PM OPTIMAL/MAXIMUM ALTITUDE
At the transition altitude
BOTH BAROMETRIC REFERENCE

CRUISE



Cruise

Cruising altitude
PF ALT CRZ on flight mode annunciator
page is the selected auto flight system control panel altitude is below the flight management system cruise flight level.
ECAM
BOTH ECAM MEMO
BOTH SD PAGES
<u>Note:</u> In cruise, due to variation of temperature, the oil quantity can decrease rapidly. This happens particularly at the start of the flight.
It is recommended to monitor the bleed system page and the electrical system display page.
Flight progress
BOTH FLIGHT PROGRESS
Step flight level
BOTH STEP FLIGHT LEVEL

DESCENT PREPARATION



Descent Preparation

200001110
Landing information
It is recommended to start the preparation 80 nautical miles before the top of descent.
PM WEATHER AND LANDING INFORMATION
PF LANDING ELEVATION
Barometric reference
BOTH BAROMETRIC REFERENCE
Electronic Centralized Aircraft Monitor
STATUS PAGE/STATUS MORE PAGE
Landing performance
PM SYNCHRO ECAM BUTTON
Flight Management System
PM FMS ACTIVE/F-PLN/ARRIVAL PAGE

insert that speed in the ECON entry field.

Note: The managed speed profile has as default value of speed limit of 250 knot below 10 000 feet. The pilot can alter this speed limit on the VERT REV page of the flight management system.



PM APPR panel of the FMS ACTIVE/PERF page
It is recommended to use of the managed speed when the landing configuration and the configuration selected on the APPR panel are exactly the same. If an in-flight failure occurred that affects the landing performance, compute the new value in the landing performance application for the approach speed, then insert the new value in the approach panel of the active performange page of the flight management system.
PM GA panel of the FMS ACTIVE/PERF page
PM FMS POSITION/NAVAIDS page
Insert the required NAVAIDS. Verify the VOR/ADF idents on the navigation displays and the ILS/GLS ident on the primary flight displays. When performing an ILS/GLS approach, verify the frequency and course of the appropriate ILS/GLS. It is recommended for navigation accuracy monitoring purpose to enter the associated ident and select a VOR/DME close to the airfield.
PM SEC pages
PF FMS
Onboard Airport Navigation System
PM RUNWAY SHIFT
Brake To Vacate system
It is recommended the use of the BTV autobrake system when the runway is in dry or wet conditions.
CAUTION It is not recommended to use of the brake to vacate system when the runway is contaminated, an inoperative engine thrust reverser, or any aircraft failure affecting the landing performance.
PM Navigation Display MODE
PM Navigation Display RANGE
PM RUNWAY
PM RUNWAY EXIT
It is recommended to select the exit in accordance with the runway conditions. It is recommended to select an exit

after the wet line to anticipate any changes of runway condition, as well as a smoother deceleration for passenger comfort. It is also recommended to take into account arrival gate, the ground circulation, the runway exit configuration,

and the predicted turn around time, which is displayed on the navigation display.



Autobrake

It is recommended to use of the autobrake system to have equal brake pressure and prevent brake overheat. Select the appropriate autobrake mode, depending on the weight, the runway length, the conditions and the winds. However, if the pilot selects the BTV system, set the BTV mode before removing the onboard airport navigation display from the navigation display. It is recommended on contaminated runway to use the autobrake mode 3. It is recommended to use of the HI mode if the BTV mode is not available or on short runway conditions If the pilot selected BTV: BOTH I OANS RUNWAY LENGTH VERSUS CHARTS RUNWAY LENGHTCROSSCHECK In order to verify the onboard airport navigation display, verify the runway length corresponds to the active charts. The difference of length between the onboard airport navigation must not be more than 115 feet. Landing briefing The landing briefing has the objective of prepare the planned approach. It is recommended using the flight management system pages as guide to the descent and approach. **Descent clearance** It is recommended setting the cleared altitude on the auto flight system control panel if above the safe altitude. If the safe altitude is higher than the cleared altitude, please refer to the air traffic control. Meanwhile, set the safe altitude on the auto flight system control panel. **Anti-Ice protection** It is recommended setting the engine anti-ice to ON when expecting icing conditions. However, please note that during descent, if the engines are at idle, the anti-ice will reduce the descent path angle.

DESCENT



Descent

Descent initiation
PF DESCENT
Note: The top of descent is not displayed when the heading mode or track mode is engaged.
When the aircraft reaches the top of descent
PF ALTITUDE
• If the ATC requires an early descent It is recommended to use the DES mode. This will lead to a lower vertical speed. This will ensure that the aircraft will converge with the planned descent path.
• If the ATC delays the descent It is recommended to engage the DES mode with managed speed active when cleared Beyond the T/D, the by the air traffic control.
Descent monitoring
PF DESCENT
Descent adjustment
PF RATE of DESCENT
It is recommended to use the speed brakes to increase the rate of descent in the OP DES mode. However, it is not recommended to use of speedbrakes in DES mode. The autothrottle will engage higher thrust to compensate the increased drag.
At 20 000 feet
CAPT Cabin Crew



Terrain Avoidance Warning System and Weather Radar

BOTH TERRAIN RADAR	D
BOTH WEATHER RADAR	D
At 10 000 feet	
PM LANDING LIGHTS	
CAPT SEAT BELTS SIGN	
BOTH CSTR	
BOTH LS	or he
For Non-Precision Approach flown with the Flight management system landing system function:	m
PM FLS CAPABILITY	IS
PM FLS DATA	K
PF NAVAIDS	K
Holding	
PM HOLDING PATTERN	D
Approach checklist	
BOTH APPROACH CHECKLIST	Έ

PRECISION APPROACH



Initial Approach

Initial approach

The airc	PPROACH PHASE				
It is reco	PF POSITIONING				
PF Ma It is reco	ANAGED SPEED				
<u>Note :</u>	When in NAV, LOC*, or LOC mode is engaged, the aircraft will automatically decelerate at the DECEL waypoint.				
PF S	PEED BRAKES				
Navigat	ion accuracy				
•	If GPS PRIMARY LOST:				
	PM NAVIGATION ACCURACY				



Intermediate and Final Approach

APPR mode activation

•	When th	e ATC clears the aircraft for the approach :
	It is recommend the selection	PR mode
	Note:	The multifunction display and the primary flight display will display "CHECK APPR SEL" if the pilot selected a non-precision approach in the active flight plan, and if the pilot manually inserted an ILS frequency on the POSITION/NAVAIDS page.
LOC ca	pture do	omain
Please r	note, the LC	C capture point represent the point of the projected LOC centerline.
It is reco	mmended	T 1+2
The pilo	t can verify	ODE ANNUNCIATIOR
Approa	ching g	reen dot speed
PF FL	APS 1	ORDER
It is reco aircraft i	ommended s decelerati	setting the flaps before being within 3 nautical mile from the final approach fix (FAF). Verify the ing toward the S speed. If the aircraft is above the glideslope, or the aircraft does not decelerate, to extend the landing gear. It is not recommended the speed brakes due to limited effect at low
It is rec	ommended	DE
It is reco	ommended n is within	JRE
<u>Note:</u>	ensure	are international regulations for LOC beam capture. In ICAO standards, the LOC beam must a normal capture within 10 nautical mile, at more or less 35 degrees from the centerline. ver, expect some abnormal captures at airports following minimal requirements.
PF G/ <u>Note:</u>	Please	RE



If above the glideslope :
PF V/S MODE
PF AUTO FLIGHT SYSTEM CONTROL PANEL ALTITUDE
It is recommended to select an altitude above the aircraft altitude to prevent any altitude engagement.
When G/S Capture (G/S*) :
PF-PM GO-AROUND ALTITUDE
Verify that when the aircraft intercept the ILS above the validity range, the CAT 1 appears on the flight mode annunciator.
Below VFE Next, at 2 500 feet above ground level minimum
PF FLAPS 2
PM FLAPS 2
After FLAPS 2 selection, at 2 000 feet above ground level minimum
PF LANDING GEAR DOWN
PM LANDING GEAR
PM AUTO BRAKE
Note: It is recommended to land on the runway indicated on the BTV settings if using the brake to vacate system. If the aircraft lands on a different runway, the autobrake will change automatically to HI in short final.
PM GROUND SPOILERS
PM EXTERIOR LIGHTS



After landing gear down down

PF FLAPS 3		
·		
PM WHEEL SYSTEM DISPLAY PAGE		
Below VFE NEXT :		
PF FLAPS FULL		
PF AUTOTHROTTLE		
BOTH SLIDING TABLE		
BOTH CABIN		
BOTH LANDING CHECKLIST		
PF FLIGHT PARAMETERS		
At 500 ft AGL (or RA) and below and if the flight crew selected BTV autobrake		
mode: The pilot monitoring should adjust the navigation display range selector to display the onboard airport navigation system. This will show the dry and wet lines.		
• At 350 ft AGL (or RA) :		
PF LAND ON FLIGHT MODE ANNUNCIATOR		
PF ILS(GLS) COURSE		
At minimum + 100 feet		
PM ONE HUNDRED ABOVE		



At minimum altitude

PM MINIMUM
CAPT LANDING or GO-AROUND
It is recommended to maintain the aircraft on a stabilized flight path until the flare. At 50 feet, one dot below the
glideslope means a difference of 7 feet below the glideslope. It is not recommended to duck under the glideslope.

NON PRECISION APPROACH



Initial Approach

PM APPROACH PHASE		
The approach phase will activate automatically if the aircraft fly over the DECEL pseudo waypoint in navigation mode. However, if the aircraft is in HDG or TRACK mode, the pilots will need to activate and confirm the approach phase on the active performance page on the flight management system 15 nautical miles before landing.		
PF POSITIONING		
It is recommended the use of the VERT DEV on the primary flight display and on the destination panel of the active performance page of the flight management system if the aircraft is in the navigation mode. If the aircraft is in heading or track mode, It is recommended to use of the energy circle on the navigation display. This shows the required distance to land.		
PF MANAGED SPEED		
Note: The aircraft will decelerate automatically at the DECEL pseudo waypoint when on these modes: managed speed is active, and either NAV or LOC mode is engaged.		
PF SPEED BRAKES		
PM REQUIRED NAVIGATION PERFORMANCE on the FLIGHT MANAGEMENT SYSTEM		
Verify if the Required Navigation Accuracy is appropriate to the phase of the flight on the POSITION/MONITOR page of the flight management system.		
PF FLIGHT MANAGEMENT SYSTEM LANDING SYSTEM CAPABILITY		
BOTH NAVIGATION DISPLAY MODE		
Select at the pilot's discretion for each navigation display.		
BOTH VOR(ADF) NEEDLES (VOR pb (ADF pb))		



altitude.

Intermediate and Final Approach

Approach phase activation			
PF APPR BUTTON ON THE AUTO FLIGHT SYSTEM CONTROL PANEL			
BOTH FLYING REFERENCE			
PF AUTOPILOT ENGAGEMENT			
PF FLIGHT MANAGEMENT SYSTEM LANDING SYSTEM CAPABILITY			
Approaching Green dot speed			
PF FLAPS 1			
PM FLAPS 1			
PM TCAS MODE			
PF F-LOC, LOC, OR LOC B/C CAPTURE			
PF F-G/S CAPTURE			
If above the flight glideslope beam: PF FLIGHT PATH ANGLE MODE			
It is recommended to select of an altitude above the current altitude to prevent ALT mode engagement.			
At flight glideslope engagement: BOTH GO-AROUND ALTITUDE			



To simulation purposes only			
Below VFE next, at 2 500 feet above ground level minimum			
PF FLAPS 2			
PM FLAPS 2			
After Flaps 2 selection, at 2 000 feet above ground level minimum			
PF LANDING GEAR DOWN			
PM LANDING GEAR			
PM AUTO BRAKE			
Note: It is recommended to land on the runway indicated on the BTV settings if use of BTV. If the aircraft lands on a different runway, the autobrake will change automatically to HI in short final.			
PM GROUND SPOILERS			
PM EXTERIOR LIGHTS			
After landing gear down selection			
Below VFE Next :			
PF FLAPS 3			
PM FLAPS 3			
PM WHEEL SYSTEM DISPLAY PAGE			
Below VFE Next :			
PF FLAPS FULL			
PM FLAPS FULL			
PF AUTOTHROTTLE			



PM LANDING MEMO
BOTH CABIN
BOTH LANDING CHECKLIST
At final approach fix:
PF F-G /S MODE
PM FLIGHT PARAMETERS
• At 500 ft AGL (or RA) and below and if the flight crew selected BTV autobrake mode: The pilot monitoring should adjust the navigation display range selector to display the onboard airport navigation system. This will show the dry and wet lines.
At minimum + 100 feet
PM ONE HUNDRED ABOVE
At minimum altitude
PM MINIMUM
If the flight crew obtains appropriate visual references :
CAPT LANDING or GO-AROUND
PF AUTOPILOT
PF FLIGHT DIRECTOR OFF
PM FLIGHT DIRECTOR
PM RUNWAY TRACK



	PF LANDING SYSTEM ORDER AS REQUIRED The pilot in command order the pilot monitoring to push the landing system pushbutton. It is recommended to set ON of the landing system if the F-LOC(LOC)(LOC B/C) beam is aligned with the runway within 4 degree difference. If it isn't the case, the landing system should be set to OFF .
	PM LANDING SYSTEM
If the flight crew obtains appropriate visual references :	
	CAPT GO-AROUND

VISUAL APPROACH



Approach

Initial / Intermediate Approach

The pilot must use external visual references for this type of approach.

At the beginning of the downwind leg			
PM APPROACH PHASE			
PF FLIGHT DIRECTOR OFF			
PM FLIGHT DIRECTOR			
PM FLYING REFERENCE			
PM AUTOTHROTTLE ACTIVE			
On the downwind leg When on the threshold, the pilot must extend the downwind leg by 45 seconds, including wind correction. The pilot can turn into the base leg. He must ensure the aircraft doesn't bank more than 30°. It is recommended to follow the flight path angle.			
Below Vfe Next PF FLAPS 2			
PM FLAPS 2			

Final Approach

- When using manual thrust, the pilot can use the speed trend arrow and flight path vector to help coordinating thrust settings. It is recommended to avoid performing a descent with idle thrust. This may lead to a speed decay and altitude loss.
- The aircraft must be stabilized by 500 ft above ground level. If not, a go-around procedure must be initiated.
- It is recommended to avoid performing big corrections in the last 100 ft above ground level in order to have a smooth landing.

LANDING



Landing

For manual landing			
PF AUTOPILOT			
At around 40 feet radio altimeter When performing a stabilized approach, the normal flare height is 40 ft above ground level. PF FLARE			
PF ATTITUDE			
PF THRUST LEVERS			
For Automatic Landing			
Between 50 feet and 40 feet radar altimeter PM FLIGHT MODE ANNUNCIATOR			
At approximately 30 feet radar altimeter PM FLIGHT MODE ANNUNCIATOR			
At 10 feet radar altimeter			
There should have an automatic "RETARD" callout triggered.			
PF THRUST LEVERS			
PF LATERAL GUIDANCE			
At touchdown			
PM FLIGHT MODE ANNUNCIATOR			
If AUTO ROLL OUT: PF AUTOPILOT			
Derotation			
As soon as the main landing gear touches down: PF DEROTATION			



Landing Roll

PF REVERSER LEVERS
PM GROUND SPOILERS EXTENDED
<u>Note:</u> If the flight crew didn't arm the spoilers, the spoilers will automatically deploy at thrust reverser activation.
PM REVERSERS
PF DIRECTIONAL CONTROL
PM AUTO BRAKE
• If no autobrake: PF BRAKES
PM DECELERATION
If AUTO ROLLOUT, before 20 knots: PF AUTOPILOT
At 80 Knots
PF EIGHTY KNOTS
PF REVERSER LEVERS
 For CAT II & CAT III Operations with BTV When 1 000 ft remains to the end of the runway, and the aircraft ground speed is higher than 10 knots:
PF BTV AUTOBRAKE MODE



At taxi speed

PF REVERSER LEVERS			
CAUTION	It is recommended to avoid the use of reverse thrust on taxiways, unless in an emergency situation.		
PF AUTO BRAKE			

GO-AROUND



Go-around initialization

A380X For simulation purposes only

Go-Around

PF THRUST LEVERS
Set the thrust levers to the TOGA detent. You can then delay the reduction of thrust later if required. This ensures
the activation of the Go-Around phase with the corresponding autopilot and flight director modes.

Notes: If the go-around phase isn't properly engaged, the FMS will continue the sequence to the destination waypoint in the flight plan, instead of engaging in the go-around procedure.

When the go-around phase engages, the approach used for this landing will be set back in the flight plan at the end of the go-around procedure.

PF ROTATION
Perform a initial rotation to the pitch attitude of 12,5° to obtain a positive rate of climb. If one engine is failed, the pitch
attitude should be 10°. Then, follow the speed reference system pitch command bar.

The pilot monitoring retract the gear and announces "**UP**" when all red lights are displayed.

At go-Around thrust reduction altitude

At go-Around acceleration altitude

If the targeted speed does not increase to the initial climb speed:

PF | FLAPS ORDER RETRACTION ON SCHEDULE
At F Speed, order flaps 1. At S speed, order flaps 0.



PM FLAPS
PM GROUND SPOILERS
PM EXTERIOR LIGHTS
BOTH AFTER TAKEOFF/CLIMB CHECKLIST down to the line
 If the transition altitude is reached:
BOTH BAROMETRIC REFERENCE SET STANDARD/CROSSCHECK Set the standard barometric reference, then verify the parameters on all altimeters. The altitude should be the same.
BOTH AFTER TAKEOFF/CLIMB CHECKLIST below the line
- Preparation for second approach: PM APPROACH PHASE
To divert to the alternate: PM FLIGHT MANAGEMENT SYSTEM
When cleared to a waypoint: DIRECT TO
PF FLIGHT MANAGEMENT SYSTEM

AFTER LANDING

FOR SIMULATION PURPOSES



After Landing

Ground spoilers
CAPT GROUND SPOILERS
Flaps
FO FLAPS
Auxiliary Power Unit
FO AUXILIARY POWER UNIT MASTER SWITCH
Engine start
FO ENGINE START SELECTOR
Anti-Ice
FO ANTI-ICE
Exterior lights
FO LANDING LIGHTS
FO STROBE
FO OTHER EXTERIOR LIGHTS
FO NOSE
FO RUNWAY TURN OFF LIGHTS & CAMERA



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Airport navigation

	BOTH NAVIGATION DISPLAY RANGE
Ε	lectronic Flight Information System Control Panel
	BOTH TAXI
	BOTH WEATHER RADAR
В	rake temperature
	FO BRAKE TEMPERATURE
A	fter landing checklist
	BOTH AFTER LANDING CHECKLIST

PARKING

FOR SIMULATION PURPOSES



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Parking

Anti-Ice system		
FO ANTI-ICE		
Auxiliary Power Unit bleed		
FO AUXILIARY POWER UNIT BLEED		
Parking brake		
CAPT PARKING BRAKE		
Engine masters 1,2,3, and 4		
CAPT ENGINE MASTERS SWITCHES 1, 2, 3, AND 4		
Note: In the case that the APU isn't available, it is recommended the connection of the external power before the engine shutdown sequence.		
When turning the engine master switches OFF , verify that the engine parameters decrease.		
Clock		
FO ELAPSED TIME (If applicable)		
Seat belts sign		
CAPT SEAT BELTS		
Slides		
CAPT SLIDES DISARMED		



Exterior lights

CAPT BEACON	
CAPT OTHER EXTERIOR LIGHTS	
Ground contact	
CAPT GROUND CONTACT	
Fuel pumps	
PM FUEL PUMPS	
Head up display	
CAPT HEAD UP DISPLAY	
Fuel quantity	
PNF FUEL QUANTITY	
Parking checklist	
BOTH PARKING CHECKLIST	
Parking brake	
CAPT PARKING BRAKE	
Notes: You can leave the parking brakes set when the winds, including gust, exceed 30 knots, when the parking ramp slope is excessive, or when the surface is wet.	
Onboard Information System (OIS) closure	
BOTH ONBOARD INFORMATION TERMINAL SLIDE	
BOTH EXIT SESSION	



A380X For simulation purposes only

Logbook

BOTH ONBOARD INFORMATION TERMINAL SIDE	.NSS AVNCS
In order to access the logbook, set the Onboard Information Terminal Side switch to the NSS AVN	CS position.
CAPT FLIGHT CLOSURE	PERFORM
Verify the VHF 3 DATA mode is active before closing the electronic flight.	

SECURING THE AIRCRAFT

FOR SIMULATION PURPOSES



Securing the Aircraft

Parking brake
CAPT PARKING BRAKE
Oxygen crew supply
FO OXYGEN CREW SUPPLY
Air Data Inertial Reference System
CAPT ADIRS (1+2+3)
Exterior lights
FO EXTERIOR LIGHTS
Ground services
CAPT GROUND SERVICING
Auxiliary Power Unit bleed
FO AUXILIARY POWER UNIT BLEED
External power
FO EXTERNAL POWER
Note: To reduce the electrical load, you can turn OFF the FANS and COOLG pushbuttons. It is however recommended to turn them ON as soon as possible.
Auxiliary Power Unit
FO AUXILIARY POWER UNIT MASTER SWITCH



Passenger signs

FO EMERGENCY EXIT LIGHTS		
FO NO SMOKING		
It is recommended to turn OFF the no smoking sign in order to preserve battery charge.		
Onboard Information System (OIS)		
BOTH ALL LAPTOPS		
<u>Note:</u> The Network Server System (NSS) will automatically shuts down when the aircraft electrical supply is down.		
BOTH Onboard Information Terminal		
Securing the aircraft checklist		
BOTH SECURING THE AIRCRAFT CHECKLIST		
Battery 1, Essential, Battery 2, and Auxiliary Power Unit Battery		
FO ALL BATT (Battery 1, Essential, Battery 2, APU Battery)		
Cockpit way light		
FO COCKPIT WAYLIGHT		