

Supplementary Procedure / Electrical - Power Up

Battery Switch..... **GUARD/CLOSED**

Do Not Move The Aircraft Until The Integrated Standby Flight Display (ISFD) Alignment Is Complete

Aircraft With Flight Deck Auxiliary Power Outlets

Devices Plugged Into The Flight Deck Auxiliary Power Outlets During Electrical Power Up
Will Not Be Powered Until The Plugs Are Removed and Reinserted

Standby Power..... **GUARD/CLOSED**

Bus Transfer Switch..... **GUARD/CLOSED**

Alternate Flaps (Master Switch)..... **GUARD/CLOSED**

Windshield Wiper Selector(s)..... **PARK**

Electric Hydraulic Pumps Switches..... **OFF**

Landing Gear Lever..... **DN**

Verify The Following

Green Landing Gear Indicator Lights Are Illuminated | Red Landing Gear Indicator Lights Are Extinguished

Ground Power (If External Power Is Needed)..... **CONNECT**

Verify That The GRD Power Available Indicator Light Is Illuminated

Ground Power Switch..... **ON**

Verify The Following

Source Off Indicator Lights Are Extinguished, Transfer Bus Off Indicator Lights Are Extinguished
Standby Power Off Indicator Light Is Extinguished

Engine/APU Fire Warning System & Extinguishers..... **TEST**

FAULT INOP & OVHT FIRE = Test | ENGINE & APU EXT (1 & 2) = Test
ENG OVHT DET Selectors = Normal | MASTER CAUTION System = Reset

APU..... **START**

Operate At Least One Fuel Boost Pump To Supply Fuel To The APU

APU Generator Bus Switches..... **ON**

Verify The Following Items Are Extinguished

Source Off Indicator Lights, Transfer Bus Off Indicator Lights, Standby Power Off Indicator Light, APU Maint Indicator Light
APU Low Oil Pressure Indicator Light, APU Fault Indicator Light, APU OverSpeed Indicator Light

Wheel well Fire Warning System..... **TEST**

Supplementary Procedure / Electrical - Standby Power Test

Battery Switch..... **ON**

AC/DC Meter Selectors..... **STBY PWR**

APU Generator Switches (1 & 2)..... **OFF**

If APU Generator Is Online

Ground Power Switch..... **OFF**

If Ground Power Is Online

Standby Power Switch..... **OFF**

Confirm Standby Power Off Indicator Light Illuminates

AC/DC Voltmeters..... **ZERO**

Standby Power Switch..... **BAT**

Confirm Standby Power Off Indicator Light Extinguishes

AC/DC Voltmeters..... **CHECK**

AC Voltmeter 115 +/- 5 Volts | DC Voltmeter 24 +/- 2 Volts

Frequency Meter..... **CHECK**

Check Frequency Meter For Normal Indication: 400 +/- 10 CPS

DC Voltmeter Selector..... **BAT**

Check DC Voltmeter For Normal Indication: 24 +/- 2 Volts
Check DC Ammeter For Discharge Indication: A Negative Value

DC Voltmeter Selector..... **AUTO BAT**

Check DC Voltmeter For Normal Indication: 24 +/- 2 Volts
Check DC Ammeter For Discharge Indication: A Negative Value

Standby Power Switch..... **AUTO**

APU Generator Switches (1 & 2)..... **ON**

If APU Generator Is Online

Ground Power Switch..... **ON**

If Ground Power Is Online

WARNING

It May Take Up To 3 Minutes For The CDS Displays To Recover
When Power Is Interrupted For More Than 2 Seconds On The Ground

Preliminary Preflight Procedure / Overhead

IRS Mode Selectors.....OFF, then NAV

Verify The Following

ON DC Indicator Lights Illuminate Then Extinguish & Align Indicator Lights Illuminate
The Unable Req'd Nav Perf-Rnp Message May Show Until The IRS Alignment Is Complete

Voice Recorder Switch.....AS NEEDED

Oxygen Pressure.....CHECK

Verify Sufficient For Flight

Hydraulic Quantity.....CHECK

Verify Sufficient For Flight

Engine Oil Quantity.....CHECK

Verify Sufficient For Flight

Maintenance Documents.....CHECK

Flight Deck Access System Switch.....GUARD/CLOSED

Emergency Equipment.....CHECK

Fire Extinguisher: Checked/Stowed | Crash Axe: Stowed
Escape Rope: Stowed | Other Needed Equipment: Checked/Stowed

PSEU Light.....VERIFY EXTINGUISHED

GPS Light.....VERIFY EXTINGUISHED

ILS Light.....VERIFY EXTINGUISHED

GLS Light.....VERIFY EXTINGUISHED

Service Interphone Switch.....OFF

Engine Panel.....SET

Verify The Following

Reverser Indicator Lights Are Extinguished | Engine Control Indicator Lights Are Extinguished

EEC Switches.....ON

Oxygen Panel.....SET

Passenger Oxygen Switch: Guard/Closed

Verify Passenger Oxygen Indicator Light Is Extinguished And That The Pressure Meets Dispatch Requirements

Landing Gear Indicator Lights.....ILLUMINATED

Flight Recorder Switch.....GUARD/CLOSED

Circuit Breakers (P6 Panel).....CHECK

Manual Gear Extension Access Door.....CLOSED

Circuit Breakers (P18 Panel).....CHECK

Parking Brake.....AS NEEDED

Set Parking Brake If Brake Wear Indicators Are Going To Be Checked During Inspection

CDU Preflight Procedure

Initial Data.....SET

Verify The Following

Model & Engine Rating Are Correct & Navigation Data Base Active Date Range Is Current

POS INIT.....SET

Verify/Set The Following

Time Is Correct & Enter Present Position On The SET IRS POS Line

Navigation Data.....SET

Enter The Following

<p><u>Route Page</u> Enter Origin, Route & Flight Number Activate & Execute Route</p>	<p><u>Departures Page</u> Select and Execute, Runway and Departure Routing</p>	<p><u>Legs Page</u> Verify or Enter The correct RNP For Departure Verify Correct Route On The RTE Page, Ensure Compliance With flight Plan</p>
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Performance Data.....SET

Enter The Following

<p><u>Perf Init Page</u> Enter ZFW, Verify Sufficient Fuel and that CDU Fuel Quantity Indicators Agree</p>	<p><u>N1 Limit Page</u> Select Assumed Temp or Fixed Derate Takeoff Select Full or Derate Climb Thrust</p>	<p><u>Takeoff Ref Page</u> Verify Trim Value <u>Select or Enter</u> CG and Takeoff Speeds Acceleration Height Engine Out Acceleration Height Thrust Reduction Altitude</p>
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Exterior Inspection

Conduct Exterior Inspection.....COMPLETE

Before Each Flight The Captain, First Officer, or Maintenance Crew Must Verify The Aircraft Is Satisfactory For Flight

Preliminary Preflight Procedure / Overhead

Flight Control Switches.....GUARDS/CLOSED

Verify That The Flight Control Low Pressure Indicator Lights Are Illuminated

Flight Spoiler Switches.....GUARDS/CLOSED**Yaw Damper Switch.....ON**Verify The Following

Yaw Damper Indicator Light Is Extinguished | STBY RUD ON Indicator Light Is Extinguished

Standby Hydraulic Low Quantity Indicator Light and Standby Hydraulic Low Pressure Indicator Light Is Extinguished

Alternate Flaps Master Switch.....GUARD/CLOSED**Alternate Position Switch.....OFF**Verify The Following

FEEL DIF PRESS & SPEED TRIM FAIL Indicator Lights Are Extinguished

MACH TRIM FAIL & AUTO SLAT FAIL Indicator Lights Are Extinguished

Navigation/VHF NAV Switch.....NORMAL**Navigation/IRS Transfer Switch.....NORMAL****Navigation/FMC Transfer Switch.....NORMAL****Display/SOURCE Selector.....AUTO****Display/CONTROL PANEL Selector.....NORMAL****Cross Feed Selector.....CLOSED**

Verify That The Valve Open Indicator Light Is Extinguished

Fuel Pump Switches.....CHECK/SETVerify The Following

Center Tank Fuel Pump Low Pressure Indicator Lights Are Extinguished

Main Tank Fuel Pump Low Pressure Indicator Lights Are Illuminated

Operate At Least One Fuel Boost Pump To Supply Fuel To The APU

Auxiliary Fuel Transfer Pumps.....AUTO

BBJ Aircraft Only

Battery Switch.....GUARD/CLOSED**CAB/UTIL.....ON****IFE/PASS SEAT.....ON****Standby Power.....GUARD/CLOSED**Verify The Following

STANDBY PWR OFF & BAT DISCHARGE Indicator Lights Are Extinguished

TR UNIT & ELEC Indicator Lights Are Extinguished

Generator Drive Disconnect Switches.....GUARDS/CLOSED

Verify That The DRIVE Indicator Lights Are Illuminated

BUS TRANSFER Switch.....GUARD/CLOSED

Verify That The TRANSFER BUS OFF & SOURCE OFF Lights Are Extinguished

Verify That The GEN OFF BUS Indicator Lights Are Illuminated

Lavatory Smoke Light.....EXTINGUISHED**Equipment Cooling Switches.....NORM**

Verify That The OFF Indicator Lights Are Extinguished

Emergency Exit Lights Switch (Inoperable On BBJ).....GUARD/CLOSED

Verify That The NOT ARMED Indicator Lights Are Extinguished

Passenger Signs (Inoperable On BBJ).....SET

No Smoking Switch & Fasten Seat Belt Switch, Set To AUTO or ON

Windshield Wiper Selectors.....PARK

Verify That The Windshield Wipers Are Stowed

Window Heat Switches.....ON

Position Switches ON At Least 10 Minutes Before Takeoff

Verify That The Overheat Indicator Lights Are Extinguished

Verify That The ON Indicator Lights Are Illuminated

(Except At High Ambient Temperatures)

Verify That The OFF Indicator Lights Are Extinguished

(Except At High Ambient Temperatures)

Probe Heat Switches.....OFF

Verify That All Indicator Lights Are Illuminated

Preliminary Preflight Procedure / Overhead

Wing Anti-Ice Switch	OFF
Verify That The VALVE OPEN Indicator Lights Are Extinguished Verify That The ICE DETECTOR Indicator Light Is Extinguished	
Engine Anti-Ice Switches	OFF
Verify That The COWL ANTI-ICE Indicator Lights Are Extinguished Verify That The COWL VALVE OPEN Indicator Lights Are Extinguished	
Hydraulic Pumps Engine Switches	ON
Verify That The LOW PRESSURE Indicator Lights Are Illuminated	
Hydraulic Pumps Electric Switches	OFF
Verify That The OVERHEAT Indicator Lights Are Extinguished Verify That The LOW PRESSURE Indicator Lights Are Illuminated	
High Altitude Landing Switch	AS NEEDED
Verify That The INOP Indicator Light Is Extinguished	
Air Temperature Source Selector	AS NEEDED
TRIM AIR Switch	ON
Verify That The DUCT OVERHEAT Indicator Lights Are Extinguished Verify That The ZONE TEMP Indicator Lights Are Extinguished	
Temperature Selectors	AS NEEDED
Verify That The RAM DOOR FULL OPEN Indicator Lights Are Illuminated	
Recirculation Fan Switches	AUTO
Verify That The Air Conditioning Switches Are Set To AUTO or HIGH	
Isolation Valve Switch	OPEN
Engine Bleed Air Switches	ON
APU Bleed Air Switch	ON
<u>Verify The Following</u> DUAL BLEED Light Is Illuminated PACK & PACK TRIP OFF Lights Are Extinguished WING-BODY OVERHEAT & BLEED TRIP OFF Lights Are Extinguished	
Cabin Pressurization Panel	SET
<u>Verify The Following</u> AUTO FAIL & OFF SCHED DESCENT Indicator Lights Are Extinguished Flight Altitude Indicator: <u>Enter Cruise Altitude</u> Landing Altitude Indicator: <u>Enter Destination Field Elevation</u>	
Pressurization Mode Selector	AUTO
Verify That The ALTN & MANUAL Indicator Lights Are Extinguished	
Landing Lights Switch	RETRACT/OFF
Runway Turnoff Light Switches	OFF
Taxi Light Switch	OFF
Ignition Select Switch	IGN L or IGN R
Alternate The Ignition Select Switch Position On Subsequent Starts	
Engine Start Switches	AUTO or OFF
With Automatic Ignition, Set To AUTO / Without Automatic Ignition, Set To OFF	
Logo Light Switch	AS NEEDED
Position Light Switch	AS NEEDED
Strobe Light Switch	OFF
Anti-Collision Light Switch	OFF
Wing Illumination Switch	AS NEEDED
Wheel Well Light Switch	AS NEEDED

Preliminary Preflight Procedure / Forward Panel & Pedestal

Course Selectors.....SET**Flight Director Switches.....ON**

Move The F/D Switch For Pilot Flying To ON First

EFIS Control Panel.....SETSet The Following

Minimums: Select RADIO or BARO | Minimums: Set D/H or Altitude Reference

Barometric Reference Selector: IN or HPA | Barometric Selector Set QNH

Mode Selector: Map | Weather Radar: Off

Set The Following As Needed

Flight Path Vector Switch | Meters Switch | VOR/ADF Switches

Center Switch | Range Selector | Traffic Switch | Map Switches

Crew Oxygen Pressure.....CHECK

Verify That The Pressure Is Sufficient For Dispatch

Oxygen Mask.....STOWED/CLOSED**Oxygen Reset/Test.....PRESS/HOLD**

Verify That The Yellow Cross Shows Momentarily In The Flow Indicator

Oxygen Mask Emergency Test Selector.....PRESS/HOLD

Continue To Press The Oxygen Reset/Test Button While Pressing The

Oxygen Mask Emergency Test Selector For 5 Seconds

Verify That The Yellow Cross Shows Continuously In The Flow Indicator

Verify That The Crew Oxygen Pressure Does Not Decrease More Than 100 psig

Release The Oxygen Reset/Test & Oxygen Mask Emergency Test Buttons

Verify That The Yellow Cross No Longer Shows In The Flow Indicator

Normal/100% - Switch - 100%

Electronic Flight Bag.....SET**Clock.....SET****Nose Wheel Steering Switch.....GUARD/CLOSED****Main Panel Display Unit Selector.....NORM****Lower Display Unit Selector.....NORM****Takeoff Config Light.....EXTINGUISHED**

If Installed And Operative

Cabin Altitude Light.....EXTINGUISHED

If Installed And Operative

Disengage Light Test Switch.....HOLD TO 1

Verify That The A/P Indicator Light Is Illuminated Steady Amber

Verify That The A/T Indicator Light Is Illuminated Steady Amber

Verify That The FMC Indicator Light Is Illuminated Steady Amber

Disengage Light Test Switch.....HOLD TO 2

Verify That The A/P Indicator Light Is Illuminated Steady Red

Verify That The A/T Indicator Light Is Illuminated Steady Red

Verify That The FMC Indicator Light Is Illuminated Steady Red

Do The Initial Data And Navigation Data Steps From The CDU Preflight

Procedure And Verify That The IRS Alignment Is Complete

Before Checking The Flight Instruments

Flight Instruments.....CHECKVerify That The Flight Instrument Indications Are CorrectVerify That These Flags Are Shown

TCAS OFF | NO VSPD Until V-Speeds Are Selected | Expected RMI Flags

Verify That The Flight Mode Annunciations Are Correct

Autothrottle Mode Is Blank | Roll mode Is Blank | AFDS Status Is FD

After Verification Select MAP MODE

Standby Instruments.....CHECK

Standby Horizon: Set

Gyro Caging Control: Pull, then Release | Approach Mode Selector: As Needed

Verify Flight Instruments Are Correct | Verify No Flags Are Shown

Standby Altimeter: Set

Verify Flight Instruments Are Correct | Verify No Flags Are Shown

Integrated Standby Flight Display.....SET

Verify Approach Mode Display Is Blank | Set Altimeter

Verify Flight Instruments Are Correct | Verify No Flags Are Shown

Preliminary Preflight Procedure / Forward Panel & Pedestal

Standby RMI.....SET

Select Either VOR or ADF

Brake Temp Light.....EXTINGUISHED

Flap Inhibit Switch.....GUARD/CLOSED

Gear Inhibit Switch.....GUARD/CLOSED

Terrain Inhibit Switch.....GUARD/CLOSED

Verify That The INOP Indicator Light Is Extinguished

Landing Gear Lever.....DN

Verify The Following

Green Landing Gear Indicator Lights Are Illuminated

Red Landing Gear Indicator Lights Are Extinguished

Auto Brake Selector Switch.....RTO

Verify That The Auto Brake Disarm Light Is Extinguished

Antiskid INOP Light.....EXTINGUISHED

N1 Set Selector.....AUTO

Speed Reference Selector.....AUTO

Fuel Flow Switch.....RESET, then RATE

Engine Instruments.....CHECK

Verify: Primary & Secondary Engine Indications Show Existing Conditions

Verify: No Exceedance Shown & Hydraulic Quantity Does Not Show RF

MFD Cancel/Recall Switch.....PUSH

Verify That The Autoland Status Advisory Messages Are Not Shown

Speed Brake Lever.....DOWN/DETENT

Verify That The Speed Brake Armed Indicator Light Is Extinguished

Verify That The Speed Brake Do Not Arm Indicator Light Is Extinguished

Verify That The Speedbrakes Extended Indicator Light Is Extinguished

Reverse Thrust Levers.....DOWN

Forward Thrust Levers.....CLOSED

Flap Lever.....SET

Set Flap Level To Agree With The Flap Position

Verify That The Flap Load Relief Indicator Light Is Extinguished

Parking Brake.....SET

Verify That The Parking Brake Warning Light Is Illuminated

Do Not Assume That The Parking Brake Will Prevent Airplane Movement

Accumulator Pressure Can Be Insufficient

Engine Start Levers.....CUTOFF

Stabilizer Trim Cutout Switches.....NORMAL

HUD System.....AS NEEDED

Radio Tuning Panel.....SET

WARNING

Do Not Key HF Radio While Aircraft Is Being Fueled

Injury To Personnel or Fire May Result

VHF Communications Radios.....SET

VHF Navigation Radios.....SET FOR DEPARTURE

Audio Control Panel.....SET

ADF Radios.....SET

Weather Radar Panel.....SET

Transponder Panel.....SET

Stabilizer Trim Override Switch.....GUARD/CLOSED

Pushback Procedure / Before Start Procedure

Flight Deck Door.....**CLOSED & LOCKED**

Verify That The LOCK FAIL Indicator Light Is Extinguished

CDU Display.....**SET**

N1 Bugs.....**CHECK**

Verify That The N1 Reference Bugs Are Correct

IAS Bugs.....**SET**

Verify The Following

Speed Bugs Are Set At V1, VR, V2 + 15, And Flaps Up Maneuvering Speed

MCP.....**SET**

Autothrottle Arm Switch: ARM | IAS/MACH Selector: Set V2

Arm LNAV As Needed | Arm VNAV | Set Initial Heading & Altitude

Taxi & Takeoff Briefings.....**COMPLETE**

Exterior Doors.....**VERIFY CLOSED**

Flight Deck Windows.....**CLOSED & LOCKED**

Establish Communications With Ground Crew.....**COMPLETE**

Do Not Hold or Turn The Nose Wheel Steering Wheel During Pushback - This Can Damage The Nose Gear or Tow Bar

Do not Use The Airplane Brakes To Stop The Airplane During Pushback - This Can Damage The Nose Gear or Tow Bar

Parking Brake.....**SET**

Set or Release The Parking Brake As Directed By Ground Crew

When Pushback Is Complete

Verify That The Tow Bar Is Disconnected - Verify That The Nose Gear Lockout Pin Is Removed

Fuel Panel.....**SET**

If Center Fuel Tank Quantity Exceeds 1,000 Pounds

Left & Right Center Fuel Pumps Switches: ON

Verify That The Low Pressure Lights Illuminate Momentarily, Then Extinguish

If The Low Pressure Lights Stay Illuminated, Turn Off Center Fuel Pumps

AFT & Forward Fuel Pumps Switches: ON

Verify That The Low Pressure Lights Illuminate Are Extinguished

Hydraulic Panel.....**SET**

System A Hydraulic Pump Switches: OFF

Verify That The System A Pump Low Pressure Lights Are Illuminated

System B Hydraulic Pump Switches: ON

Verify That The System B Pump Low Pressure Lights Are Extinguished

Verify That Brake Pressure Is 2800 psi Minimum

Verify That Hydraulic System B Pressure Is 2800 psi Minimum

Electric Hydraulic Pump Switches: ON

Verify That The Electric Pump Low Pressure Lights Are Extinguished

Verify That Brake Pressure Is 2800 psi Minimum

Verify That The System A & B Pressures Are 2800 psi Minimum

Position Lights.....**STEADY & STROBE**

Anti Collision Light Switch.....**ON**

Trim.....**SET**

Check Each Trim For Freedom Of Movement

Stabilizer Trim.....**UNITS**

Set Trim For Takeoff | Verify Trim Is In The Green Band | Aileron Trim: 0 | Rudder Trim: 0

Engine Start Procedure

Select Secondary Engine Indications

Air Conditioning Pack Switches.....**OFF**

Start Sequence.....**ANNOUNCE**

Right Engine Start Switch.....**GRD**

Verify N2 RPM Increases

Right Engine Start Lever.....**IDLE AT 20% N2**

Right Engine Start Switch / Confirm Return To Auto

Verify That The Start Valve Open Alert Extinguishes

Monitor N1, N2, EGT, Fuel Flow and Oil Pressure For Normal Indications

When The Engine Is Stable At Idle, Start The Other Engine

Left Engine Start Switch.....**GRD**

Verify N2 RPM Increases

Left Engine Start Lever.....**IDLE AT 20% N2**

Left Engine Start Switch / Confirm Return To Auto

Verify That The Start Valve Open Alert Extinguishes

Monitor N1, N2, EGT, Fuel Flow and Oil Pressure For Normal Indications

Before Taxi Procedure

Generator 1 & 2 Switches.....	ON
AC Voltmeter Selector.....	GEN1 or GEN2
Probe Heat Switches.....	ON
Wing Anti-Ice Switch.....	AS NEEDED
Engine Anti-Ice Switches.....	AS NEEDED
System A Hydraulic Pump Switches.....	ON
Pack Switches.....	AUTO
Isolation Valve Switch.....	AUTO
APU Bleed Air Switch.....	OFF
Engine Start Switches.....	CONT
Engine Start Levers.....	IDLE/DETENT
Verify Ground Equipment Is Clear	
Flaps Lever.....	SET TAKEOFF FLAPS
Verify That The LE FLAPS EXT Green Light Is Illuminated	
Flight Controls.....	CHECK
Verify Freedom Of Movement & Return To Center	
Lower Display Unit.....	BLANK
Transponder.....	AS NEEDED
Airports Where Ground Tracking Is Not Available, Select STBY	
Airports Equipped To Track Aircraft On The Ground	
Select An Active Transponder Setting, But Not A TCAS Mode	
Recall.....	CHECK
Verify All System Annunciator Panel Lights Illuminate & Then Extinguish	
EFB Airport Map Application.....	SELECT
Do Not Use The Airport Map Application As A Primary Navigation Reference	
The Airport Map Application	
Is Designed To Aid Flight Crew Positional Awareness Only	

Taxi Procedure / Before Takeoff Procedure

Taxi Light Switch.....	ON
Runway Turnoff Light Switches.....	ON
Flaps.....	SET
Confirm Flaps Are Set For Takeoff	
Stabilizer Trim.....	SET
Confirm Trim Is Set For Takeoff Confirm Trim Is In The Green Band	
Parking Brake.....	RELEASED
Center Fuel Tank Quantity Check	
Both Center Fuel Tank Pump Switches Must Be Off For Takeoff	
If The Center Tank Has Less Than 5000 Pounds Of Fuel	
Weather Radar Display.....	AS NEEDED
Terrain Display.....	AS NEEDED
Cabin Notification.....	CREW NOTIFIED
Verify Cabin Is Secure And Notify The Cabin Crew To Prepare For Takeoff	

Cleared Into Position / Takeoff Procedure

Exterior Lights.....	ON
Landing, Anti Collision, Strobe And Wing Lights, Logo Lights On At Night	
Clock ETE.....	RUN
Transponder.....	TA/RA
Brakes.....	RELEASED
Throttles.....	ADVANCE TO 40% N1
Allow Engines To Stabilize	
Auto Throttle (Engage).....	TO/GA
Verify Proper Thrust Prior To 80 Kts, Observe Takeoff Thrust Being Set,	
Verify 80 Kts, Verify Throttle Hold, Monitor Airspeed For V1 And VR,	
Rotate At VR Until Airborne, Then Follow F/D Pitch Commands	

After Takeoff

Positive Rate Of Climb.....GEAR UP

Once The Gear Is Retracted, Place The Gear Lever In The Off Position
Above 400 Feet Radio Altitude, Call for A Roll Mode As Needed
At Thrust Reduction Height, Verify Climb Thrust Is Set

Flaps.....RETRACT

Retract Flaps According To The Flaps Schedule
After Flaps/Slats Retraction, Activate VNAV

Autopilot.....SET & ENGAGE

Engage Autopilot

When Above The Minimum Altitude For Autopilot Engagement

Engine Bleeds.....SET/VERIFY

Engine Start Switches.....AUTO or OFF

With Automatic Ignition, Set To AUTO / Without Automatic Ignition, Set To OFF

Auto Brake Selector Switch.....OFF

Climb / Cruise Procedure

At 10,000 Feet.....LANDING LIGHTS OFF

This Include Taxi, Runway Turnoff, Wing And Logo Lights

Fuel Pumps.....SET/VERIFY

If The Center Fuel Tank Pumps Were Turned Off For Takeoff And The
Center Tank Contains More Than 1000 Pounds Of Fuel, Set Both
Center Fuel Tank Pumps To On Above 10,000 Feet

When The Center Tank Fuel Quantity Reaches Approximately 1000 Pounds
Turn Off The Center Fuel Tank Pumps

Passenger Signs (Inoperable On BBJ).....AS NEEDED

Transition Altitude.....29.92in / 1013hpa

Level Off At Assigned Altitude.....CONFIRM

Flight Progress.....MONITOR

Arrival Procedure.....PREPARE

Before Top Of Descent

Modify The Active Route As Needed For The Arrival And Approach
Verify or Enter The Correct RNP For Arrival

Descent Procedure

Pressurization.....AIRPORT ALTITUDE

Passenger Signs (Inoperable On BBJ).....AUTO or ON

Recall.....CHECKED

Recall & Review System Annunciator Lights

Autobrake.....SET

Landing Data.....VREF __, MINIMUMS __

Enter/Verify VREF On The Approach REF Page
Set Radio/Baro Minimums As Needed For approach
Set/Verify Navigation Radios & Course For The Approach

Approach Briefing.....COMPLETED

Approach Procedure

Transition Altitude.....SET LOCAL QNH

At 10,000 Feet.....LANDING LIGHTS ON

This Includes The Following

Landing, Anti Collision, Strobe And Wing Lights, Logo Lights On At Night

Approach Briefing.....COMPLETE

An ILS & Instrument Approach Using VNAV Procedures
Are Included On The Next Page

Landing Procedure - (ILS)

Cabin Notification.....**CREW NOTIFIED**

Notify Cabin Crew To Prepare For Landing | Verify Cabin Is Secure

Flaps.....**EXTEND**

Extend Flaps According To The Flaps Schedule
Monitor Flaps/Slats Extension

Localizer Intercept.....**VERIFY**

Verify ILS Is Tuned & Identified
Verify The LOC & G/S Pointers Are Shown
Verify That The Localizer Is Captured

Glide Slope.....**WHEN ACTIVE**

Set Flaps Lever to 15 Degrees

Engine Start Switches.....**CONT**

Speed Brake.....**ARM**

Verify That The Speed Brake Armed Light Is Illuminated

Landing Gear.....**DN**

Verify That The Green Landing Lights Illuminate

Glide Slope.....**CAPTURED**

Set Flaps For Landing In Accordance With The Flaps Schedule
Enter Missed Approach Altitude On The MCP
At Final Approach Fix or OM, Verify The Crossing Altitude
Monitor The Approach & Verify Autoland Status At 500 Feet Radio Altitude

Landing Procedure - (Instrument Approach Using VNAV)

Cabin Notification.....**CREW NOTIFIED**

Notify Cabin Crew To Prepare For Landing | Verify Cabin Is Secure

Flaps.....**EXTEND**

Extend Flaps According To The Flaps Schedule
Monitor Flaps/Slats Extension

Roll Mode For Final Approach.....**VERIFY**

For A RNAV or GPS Approach Use LNAV
For A LOC-BC, VOR or NDB Approach Use LNAV
For A LOC, SDF or LDA Approach, Use LNAV or VOR/LOC
Verify That The VNAV Glide Path Angle Is Shown On The
Final Approach Segment Of The LEGS Page

Final Approach Course.....**INTERCEPT HEADING**

When On Final Approach Intercept Heading For LOC, LOC-BC, SDF or LDA
Verify That The Localizer Is Tuned & Identified
Verify That The LOC Pointer Is Shown
Select LNAV or Arm The VOR/LOC
Use LNAV or HDG SEL To Intercept The Final Approach Course As Needed
Verify That LNAV IS Engaged or That VOR/LOC Is Captured
Approximately 2NM Before Final Approach Fix And After ALT Hold or
VNAV PTH or VNAV ALT Is Annunciated
Verify Autopilot Is Engaged | Set DA (H) or MDA (H) On The MCP
Select or Verify Speed Intervention | Select or Verify VNAV

Glide Slope.....**WHEN ACTIVE**

Set Flaps Lever to 15 Degrees

Engine Start Switches.....**CONT**

Speed Brake.....**ARM**

Verify That The Speed Brake Armed Light Is Illuminated

Landing Gear.....**DN**

Verify That The Green Landing Lights Illuminate

Final Approach Descent.....**FLAPS**

Set Flaps For Landing In Accordance With The Flaps Schedule

Landing.....**SET MCP**

At 300 Feet Below The Missed Approach Altitude
Set The Missed Approach Altitude On The MCP
At Final approach Fix
Verify The Crossing altitude And Crosscheck Altimeters
Monitor The approach
If Suitable Visual Reference Is Established At DA (H), MDA (H) or The
Missed Approach Point, Disengage The Autopilot & Autothrottle
Maintain Glide Path To Landing

This Procedure Is Not Authorized Using QFE

Go-Around & Missed Approach Procedure

I Included The Go-Around / Missed Approach Procedure
Just In Case It Was Needed

TO/GA.....PRESS

Verify Rotation To Go-Around Attitude & Increased Thrust
Verify Thrust Is Sufficient For Go-Around or Adjust As Needed

Flaps.....15

Monitor Flap Retraction

Landing Gear.....UP

Verify Positive Rate Of Climb
Once The Gear Is Retracted, Place The Gear Lever In The Off Position

Above 400 Feet

Verify LNAV or Select HDG SEL As Appropriate
Verify Proper Mode Annunciation
Verify Missed Approach Route Is Tracked

Flaps.....RETRACT

Retract Flaps According To The Flaps Schedule

After Flap Retraction, Select LVL CHG | VNAV May Be Selected If Flaps Are Up

Verify Climb Thrust Is Set | Verify Missed Approach Altitude Is Captured

Engine Start Switches.....AS NEEDED

After Takeoff Checklist.....COMPLETE

Landing Roll Procedure

Autopilot.....DISENGAGE

Control The Aircraft Manually

Thrust Levers.....CLOSED

Speed Brake.....UP

Without Delay, Fly The Nose Wheel Smoothly Onto The Runway
Verify Correct Autobrake Operation

Reverse Thrust.....APPLY

Move Reverse Thrust Levers To The Interlocks And Hold Light Pressure
When Interlocks Release, Apply Reverse Thrust As Needed

By 60 Knots, Move Reverse Thrust Levers To Reverse Idle Detent
After Engines Are At Reverse Idle, Move Reverse Thrust Levers Full Down

Before Taxi Speed, Disarm The Autobrake | Use Manual Braking As Needed

EFB Airport Map Application.....SELECT

Do Not Use The Airport Map Application As A Primary Navigation Reference

The Airport Map Application
Is Designed To Aid Flight Crew Positional Awareness Only

After Landing Procedure

Speed Brake.....DOWN

Autothrottle.....OFF

Flight Directors.....OFF

APU.....START

Probe Heat Switches.....OFF

Exterior Lights.....AS NEEDED

Landing Lights = OFF | Anti Collision Lights = ON

Strobe & Wing Lights = OFF | Logo Lights On At Night

Position Lights = ON | Taxi Lights = ON | Runway Turnoff Lights = ON

Engine Start Switches.....AUTO or OFF

With Automatic Ignition, Set To AUTO / Without Automatic Ignition, Set To OFF

Engine & Wing Anti-Ice.....OFF

Weather Radar.....OFF

Auto Brake Selector Switch.....OFF

Verify That The Auto Brake Disarm Light Is Illuminated

Flaps.....UP

After Landing Procedure

Transponder.....AS NEEDED

Airports Where Ground Tracking Is Not Available, Select STBY
Airports Equipped To Track Aircraft On The Ground
Select An Active Transponder Setting, But Not A TCAS Mode

ETE Clock.....STOP

Taxi & Runway Turnoff Lights.....SET

Turn Taxi & Runway Turnoff Lights Off Prior To Entering The Gate Area

Shutdown Procedure

Parking Brake.....SET

Verify Parking Brake Warning Light Is Illuminated

Electrical Power.....SET

<u>APU Power</u>	<u>GRD Power</u>
APU Generator Bus Lights Illuminated	Ground Power Available Lights Illuminated
APU Generator Bus Switches ON	GRD Power Switch ON
Verify Source Off Lights Are Extinguished	Verify Source Off Lights Are Extinguished

Engine Start Levers.....CUTOFF

Seatbelt Sign Switch (Inoperable On BBJ).....OFF

Ant Collision Light Switch.....OFF

Fuel Pump Switches.....OFF

Do not Use Center Fuel Tank Pumps If Flight Deck Is Unattended

CAB/UTIL Power Switch.....AS NEEDED

IFE/PASS Seat Power Switch.....AS NEEDED

Wing Anti-Ice Switch.....OFF

Engine Anti-Ice Switches.....OFF

Probe Heat Switches.....OFF

Confirm Probe Heat Switches Are Off

Hydraulic Panel.....SET

Engine Hydraulic Pump Switches: ON
Electric Hydraulic Pump Switches: OFF

Recirculation Fan Switches.....AS NEEDED

Air Conditioning Pack Switches.....AUTO

Isolation Valve Switch.....OPEN

Engine Bleed Air Switches.....ON

APU Bleed Air Switch.....ON

Exterior Lights Switches.....AS NEEDED

Flight Director Switches.....OFF

Transponder Mode Selector.....STBY

Weather Radar.....OFF

Flaps.....UP

Confirm Flaps Are Up

EFB Close Flight.....SELECT

Parking Brake.....RELEASE

WARNING

Only Release Parking Brake After Chocks Are In Place

APU Switch.....AS NEEDED

Secure Procedure

IRS Mode Selectors.....OFF

Emergency Exit Lights Switch (Inoperable On BBJ).....OFF

Window Heat Switches.....OFF

Air Conditioning Pack Switches.....OFF

EFB Power Switch.....PUSH