

Boeing 737 - NG Series Flow/Checklist

B737: 800/900/BBJ2/BBJ3

Designed by: Michael Swannick

B737: 800/900/BBJ2/BBJ3

PREFLIGHT & AFT OVERHEAD

Parking Brake.....	SET
Battery Switch.....	ON
DC Voltmeter Selector (Verify You Have A Minimum Of 22 Volts).....	BAT
AC Voltmeter Selector.....	GRD PWR
Electric Hydraulic Pumps.....	OFF
Standby Power Disconnect (1 & 2).....	GUARDED
Standby Power.....	AUTO/GUARDED
Bus Transfer.....	AUTO/GUARDED
Ground Power (Verify You Have A Minimum Of 115 Volts).....	CONNECT/ON
Landing Gear Lever.....	DOWN
Verify Three Green Indicator Lights On, Three Red Indicator Lights Off	
Engine / APU Fire Warning System & Extinguishers.....	TEST
FAULT INOP = TEST OVHT FIRE = TEST ENGINE & APU EXT (1 & 2) = TEST ENG OVHT DET Selectors = NORMAL MASTER CAUTION System = RESET	
Position Lights.....	ON
Engine Bleed Switches (1 & 2).....	OFF
APU Bleed Switch.....	OFF
Left Forward Fuel Pump.....	ON
APU.....	START
The APU Start Switch Is Spring Loaded And Will Return To The On Position The APU GEN OFF BUS Light Will Illuminate When The APU Is Started & Ready	
APU Generator Switches.....	ON
AC Voltmeter Selector.....	APU GEN
APU Bleed Switch.....	ON
LE DEVICES.....	TEST
IRS Display (DSPL SEL).....	TEST then PPOS
Align IRS.....	OFF then NAV
Oxygen (Crew & Pass).....	CHECK & NORMAL
Mach Airspeed Warning (1 & 2).....	TEST
Stall Warning (1 & 2).....	TEST
Equipment Cooling Supply & Exhaust Switches.....	NORMAL
Recirculation Fans (Left & Right).....	AUTO
Air Conditioning Panel.....	SET
APU BLEED AIR UNCONDITIONED BLEED AIR APU Bleed Switch = ON APU Bleed Switch = OFF Isolation Valve Switch = AUTO Isolation Valve Switch = OPEN Left & Right Pack Switches = AUTO Left & Right Pack Switches = AUTO	
Emergency Exit Lights (Inoperable On BBJ2 & BBJ3).....	ARMED
No Smoking Sign (Inoperable On BBJ2 & BBJ3).....	ON
Seatbelt Sign (Inoperable On BBJ2 & BBJ3).....	OFF
Flaps Lever.....	UP
Verify Flaps Lever Matches Flap Position Indicator	

OVERHEAD PREPARATION

Standby Hydraulic: Low Quantity/Low Pressure Indicators.....	OFF
Flight Control Switches (A & B).....	GUARDED
Alternate Flaps Switch.....	GUARDED
Alternate Flaps Control Switch.....	OFF
Spoiler Switches (A & B).....	GUARDED
Yaw Damper Switch.....	ON
VHF NAV & IRS Switches.....	NORMAL
FMC Switch.....	NORMAL
Navigation Display Source.....	AUTO
Navigation Display Control Panel.....	NORMAL
Fuel Valve Cross Feed.....	CHECK
Turn Cross Feed Selector To Open, Verify Valve Light Goes Bright Then Dim Turn Cross Feed Selector To Closed, Verify Valve Light Goes Bright Then Off	
Fuel Pumps.....	CHECK
Auxiliary Fuel Transfer (FWD: A&B / AFT: A&B).....	AUTO
BBJ 2 & BBJ 3 Aircraft Only	
DC Voltmeter TR1, TR2, TR3.....	TEST
DC Voltmeter Selector.....	BAT
CAB / UTIL.....	ON
IFE / PASS.....	ON
Lavatory Indicator Light.....	OFF
Equipment Cooling Supply & Exhaust Switches.....	NORMAL
Emergency Exit Lights (Inoperable On BBJ2 & BBJ3).....	ARMED
No Smoking Sign (Inoperable On BBJ2 & BBJ3).....	ON
Seatbelt Sign (Inoperable On BBJ2 & BBJ3).....	OFF
Wiper (Left & Right).....	AS NEEDED
Window Heat (Overheat & Power).....	TEST
Window Heat (Left & Right).....	ON
Probe Heat (Left & Right).....	OFF
Wing Anti Ice.....	OFF
Engine Anti Ice.....	OFF
Electric Hydraulic Pumps (1 & 2).....	OFF
Engine Hydraulic Pumps (1 & 2).....	ON
Cockpit Voice Recorder.....	TEST
Engine Start Switches.....	AUTO
Ignition Selector Switch.....	IGN L or IGN R

Air Conditioning Panel (Air Temp / Pass Cab).....	SET
Trim Air.....	ON
Air Conditioning Selector (Cont/Fwd/Aft).....	AUTO
Recirculation Fans (Left & Right).....	AUTO
Wing/Body OVHT.....	TEST
Packs (Left & Right).....	AUTO
Isolation Valve.....	OPEN
Engine Bleed Switches (1 & 2).....	ON
APU Bleed Switch.....	ON

Dual Bleed Light

If Both The APU & Engine Bleeds Are Open, The Dual Bleed Light Will Illuminate
If Either The APU or Engine Bleeds Are Off, The Dual Bleed Light Will Extinguish

Pressurization Panel.....	SET
Mode Selector = Auto Flight Altitude Indicator = Enter Planned Flight Altitude Land Altitude Indicator = Enter Destination Airport Altitude	

Exterior Lights.....	AS REQUIRED
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FORWARD PANEL & PEDESTAL

FMC.....	PROGRAM
EFIS Control Panel.....	SET
Flight Director Switches.....	ON
Auto Throttle (A/T ARM).....	OFF
IAS / MACH Indicator.....	SET
Heading Selector.....	SET
Enter Assigned Heading or Runway Heading	
Altitude Selector.....	SET
Autopilot Engage Switches.....	OFF
Autopilot Disengage Bar.....	UP
Main Panel & Lower DU Selectors.....	NORM
Auto Flight Annunciator.....	TEST
PF / EADI.....	CHECK
ND / EHSI.....	CHECK
Altimeter.....	SET
Standby Gauges.....	CHECK / SET
N1 SET.....	AUTO
SPD REF.....	AUTO
Fuel Flow.....	RESET
Auto Brake.....	RTO
EICAS.....	CHECK
Parking Brake.....	SET
Speed Brake Lever.....	DOWN
Thrust Levers.....	IDLE
Reverse Levers.....	DOWN
Flaps.....	UP

Verify The Flaps Up Position Matches The Flap Indicator

Engine Start Levers.....	CUTOFF
Stab Trim.....	NORMAL
Takeoff Warning Horn.....	TEST
Advance The Left/Right Throttle Lever, The Takeoff Horn Should Activate	
COMM Radios.....	CHECK / SET
NAV Radios.....	CHECK / SET
Audio Panel.....	SET
Rudder & Aileron Trim.....	ZERO
Transponder.....	TEST / SET / STANDBY
Pre-Departure Briefing.....	COMPLETE

BEFORE PUSHBACK / READY FOR PUSHBACK

Fuel Pump Switches.....	ON
APU Generator Switches.....	ON
Seat Belt Sign.....	ON
Hydraulic A Pump Switches.....	OFF
Hydraulic B Pump Switches.....	ON
CDU Display.....	AS DESIRED
Flight Deck Door & Windows.....	LOCKED
Ground Equipment.....	DISCONNECTED / CLEAR
Stabilizer Trim (Confirm Green Band).....	SET
Anti Collision Lights.....	ON

ENGINE START

Pack Switches.....	BOTH OFF
Isolation Valve.....	AUTO
Duct Pressure Gauge.....	VERIFY 30+ PSI
Right Engine Start Switch.....	GRD
Right Engine Fuel Cutoff Lever.....	ON AT 20% N2
Right Engine Start Switch (After Return To AUTO).....	CONT
Left Engine Start Switch.....	GRD
Left Engine Fuel Cutoff Lever.....	ON AT 20% N2
Left Engine Start Switch (After Return To AUTO).....	CONT

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AFTER ENGINE START

Engine Generator Switches (1 & 2).....ON
 Hydraulic A Pump Switches.....ON
Low Pressure Indicator Lights Extinguished
 AC Voltmeter Selector.....GEN 1 or GEN 2
 Engine Bleed Switches.....BOTH ON
 APU Bleed Switch.....OFF
Confirm Dual Bleed Indicator Light Extinguished
 APU.....AS NEEDED
 Probe Heat Switches (A & B).....ON
 Master Caution System.....RECALL
 Engine / Wing Anti Ice.....AS REQUIRED
 Pack Switches (Left & Right).....AUTO
 Isolation Valve.....AUTO
 Hydraulic System.....CHECK
 Taxi Clearance.....OBTAIN

TAXI

Parking Brake.....RELEASED
 Taxi Lights.....ON
 Runway Turnoff Lights.....ON
 Flaps.....SET
Extend Flaps To Takeoff Position
 Flight Controls.....CHECK
 Weight Manifest.....CHECK / CORRECT
 Cabin Notification.....CREW NOTIFIED

CLEARED INTO POSITION

Auto Throttle.....ARM
 Engine Start Switches.....CONT
 Master Caution System.....RECALL
 Transponder.....TARA
Press TFC And Verify TFC Is Displayed
 Exterior Lights.....ON
Landing Lights, Anti Collision Lights, Strobe Lights, Wing Lights, (Logo Lights At Night)
 Clock ETE.....RUN

TAKEOFF

Parking Brake.....RELEASED
 Throttles.....ADVANCE TO 40% N1
Allow Engines To Stabilize, Once Stabilized Advance Throttles Toward N1
 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 The Flight Director Pitch Commands

AFTER TAKEOFF

Positive Rate Of Climb.....GEAR UP
Once The Gear Is Retracted, Place The Gear Lever In The Off Position
 Flaps.....RETRACT
Retract Flaps According To The Flap Schedule
 Auto Pilot.....SET & ENGAGE
Activate V NAV & L NAV
 Do Not Engage The Auto Pilot Until Reaching An AGL Of 1000 Feet
 Air Conditioning & Pressurization.....CHECK / SET

CLIMB

Auto Brake.....OFF
 Engine Start Switches.....AUTO
 At 10,000 Feet.....LANDING LIGHTS OFF
This Includes, Taxi Lights, Runway Turnoff Lights, Wing Lights, Logo Lights
 Seatbelt Sign (Inoperable On BBJ2 & BBJ3).....AS NEEDED
 Transition Altitude.....SET ALTIMETER TO 29.92

CRUISE

Level Off At Assigned Altitude.....CONFIRM
 Flight Progress.....MONITOR
Also Monitor: Navigation, Fuel Status, Aircraft Systems, Performance
 Arrival Procedure.....PREPARE
Prior To Initial Descent: Review, Verify, And Enter Expected Arrival Procedure

INITIAL DESCENT

Seatbelt Sign (Inoperable On BBJ2 & BBJ3).....ON
 Air Conditioning & Pressurization.....CHECK / SET
 Wing & Engine Anti Ice.....AS REQUIRED
 Transition Altitude.....LOCAL QNH
 ATIS.....OBTAIN
 Engine Start Selectors.....CONT
 Approach Briefing.....COMPLETE
Review Arrival Procedure, Final Airspeed, Flap Setting, Missed Approach Procedure

FMC.....ARRIVAL & APPROACH
Program Arrival & Approach Fixes As Required
 Flight Instruments & Radios.....SET
Identify, Tune, And Set Radios, Check & Verify Instruments, Set Vref Speeds
 Below 10,000 Feet.....LANDING LIGHTS ON
This Includes The Runway Turnoff, Taxi, Wing Lights | Turn Logo Lights On At Night
 Auto Brakes.....AS REQUIRED
 Decision Height.....SET

FINAL APPROACH / LANDING

Master Caution.....RECALL
 MCP Missed Approach Altitude.....ENTER
 Speed Brake.....ARMED
 Cabin Notification.....CREW NOTIFIED
 Flaps.....EXTEND DURING DECELERATION
Deploy Flaps According To The Flap Schedule
 Landing Gear.....DOWN
At Touchdown, Verify Spoiler Deployment, Decelerate Using Reversers & Brakes
 Reduce Reverse Thrust At 80 Knots, Reverse Thrust Should Be At Idle By 60 Knots
 Disconnect Autopilot & Auto Brakes Prior To Leaving The Runway

AFTER LANDING / TAXI

Autopilot.....DISENGAGED
 Auto Throttle Switch.....OFF
 Auto Brakes Selector.....OFF
 Flight Director Switch.....OFF
 Exterior Lights.....SET
Landing Lights = Off, Anti Collision Lights = Off, Strobe Lights = Off,
 Wing Lights = Off, Position Lights = On, Taxi Lights = On, Runway Turnoff Lights = On
 Logo Lights On At Night
 Flaps Lever.....UP
 Speed Brake Lever.....UP
 Transponder.....STANDBY
 ETE Clock.....STOP
 Engine Start Switches.....AUTO
 Engine & Wing Anti Ice.....OFF
 Stabilizer Trim.....SET
 APU.....AS REQUIRED
You Must Wait One Minute After APU Start, Before Using APU Bleed Air
 Taxi & Runway Turnoff Lights.....OFF
Turn Taxi & Runway Turnoff Lights Off Prior To Entering The Gate Area

SHUTDOWN / SECURE

Parking Brake.....SET
 Passenger Signs (Inoperable On BBJ2 & BBJ3).....OFF
 AC Voltmeter Selector.....APU GEN
 APU GEN Switches.....ON
 Engine Start Levers.....CUTOFF
 APU Bleed Switch.....ON
 Engine Bleed Switches.....OFF
 Ground Power & Air.....ON
 AC Voltmeter Selector.....GRD PWR
Check AC Voltmeter, Verify You Have A Minimum Of 115 Volts
 APU Bleed Switch.....OFF
 APU.....OFF
 Exterior Lights.....OFF
 Isolation Valve.....OPEN
 Pack Switches (Left & Right).....AUTO
 Recirculation Fans (Left & Right).....OFF
 Air Conditioning Selector (Cont/Fwd/Aft).....OFF
 Trim Air.....OFF
 Air Conditioning Panel (Air Temp / Pass Cab).....SET
 Hydraulic Pumps (Engine).....OFF
 Hydraulic Pumps (Electric).....OFF
 Wing Anti Ice.....OFF
 Engine Anti Ice.....OFF
 Probe Heat Switches (A & B).....OFF
 Window Heat Switches.....OFF
 Ignition Selector Switch.....BOTH
 Wiper (Left & Right).....OFF
 Emergency Exit Lights (Inoperable On BBJ2 & BBJ3).....OFF
 Fuel Pumps.....OFF
 Auxiliary Fuel Transfer (FWD: A&B / AFT: A&B).....OFF
BBJ 2 & BBJ 3 Aircraft Only
 Yaw Damper.....OFF
 Align IRS.....OFF
 CAB/UTIL & IFE/PASS Switches.....OFF
 AC / DC Voltmeters.....STANDBY POWER
 Ground Power.....OFF/DISCONNECT
 Bus Transfer.....OFF
 Standby Power.....OFF
 Battery.....OFF