

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								
<table border="0" style="width: 100%;"> <tr><td style="width: 50%;"><u>APU BLEED AIR</u></td><td style="width: 50%;"><u>UNCONDITIONED BLEED AIR</u></td></tr> <tr><td>APU Bleed Switch = ON</td><td>APU Bleed Switch = OFF</td></tr> <tr><td>Isolation Valve Switch = AUTO</td><td>Isolation Valve Switch = OPEN</td></tr> <tr><td>Left & Right Pack Switches = AUTO</td><td>Left & Right Pack Switches = AUTO</td></tr> </table>		<u>APU BLEED AIR</u>	<u>UNCONDITIONED BLEED AIR</u>	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
<u>APU BLEED AIR</u>	<u>UNCONDITIONED BLEED AIR</u>								
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
<small>Low Pressure Indicator Lights Extinguished</small>	
AC Voltmeter Selector.....	GEN 1 or GEN 2
Engine Bleed Switches.....	BOTH ON
APU Bleed Switch.....	OFF
<small>Confirm Dual Bleed Indicator Light Extinguished</small>	
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
<small>Extend Flaps To Takeoff Position</small>	
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
<small>Press TFC And Verify TFC Is Displayed</small>	
Exterior Lights.....	ON
<small>Landing Lights, Anti Collision Lights, Strobe Lights, Wing Lights, (Logo Lights At Night)</small>	
Clock ETE.....	RUN

TAKEOFF

Parking Brake.....	RELEASED
Throttles.....	ADVANCE TO 40% N1
<small>Allow Engines To Stabilize, Once Stabilized Advance Throttles Toward N1</small>	
Auto Throttle (Engage).....	TO/GA
<small>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</small>	

AFTER TAKEOFF

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

CLIMB

Auto Brake.....	OFF
Engine Start Switches.....	AUTO
At 10,000 Feet.....	LANDING LIGHTS OFF
<small>This Includes, Taxi Lights, Runway Turnoff Lights, Wing Lights, Logo Lights</small>	
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
<small>Also Monitor: Navigation, Fuel Status, Aircraft Systems, Performance</small>	
Arrival Procedure.....	PREPARE
<small>Prior To Initial Descent: Review, Verify, And Enter Expected Arrival Procedure</small>	

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
<small>Review Arrival Procedure, Final Airspeed, Flap Setting, Missed Approach Procedure</small>	

FMC.....	ARRIVAL & APPROACH
<small>Program Arrival & Approach Fixes As Required</small>	
Flight Instruments & Radios.....	SET
<small>Identify, Tune, And Set Radios, Check & Verify Instruments, Set Vref Speeds</small>	
Below 10,000 Feet.....	LANDING LIGHTS ON
<small>This Includes The Runway Turnoff, Taxi, Wing Lights Turn Logo Lights On At Night</small>	
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
<small>Deploy Flaps According To The Flap Schedule</small>	
Landing Gear.....	DOWN
<small>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</small>	

AFTER LANDING / TAXI

Autopilot.....	DISENGAGED
Auto Throttle Switch.....	OFF
Auto Brakes Selector.....	OFF
Flight Director Switch.....	OFF
Exterior Lights.....	SET
<small>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</small>	
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
<small>You Must Wait One Minute After APU Start, Before Using APU Bleed Air</small>	
Taxi & Runway Turnoff Lights.....	OFF
<small>Turn Taxi & Runway Turnoff Lights Off Prior To Entering The Gate Area</small>	

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
<small>Check AC Voltmeter, Verify You Have A Minimum Of 115 Volts</small>	
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
<small>BBJ 2 & BBJ 3 Aircraft Only</small>	
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