



737-800 NGX

Panels and Checklists

Version 2.0

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About this resource

To be fully immersed in the experience of flying a complex payware package such as the PMDG 737-800 NGX, you need to be conversant with the multitude of functional switches and levers that are featured in the aircraft. Not only do you need to know what these do and how they impact on the operation of the aircraft, you also need to know when to apply them in each stage of a flight – from a cold and dark cockpit to a complete shut-down.

The most comprehensive source of information can be gained from the printed manuals and posters produced by [Precision Manuals Development Group](#) (PMDG) at a cost. The full Chief Pilot's Flight Manual Set (3,500 pages) will cost you \$330 and the Captain's Flight Manual Set \$250.

For those for whom cost is a factor this resource may suit your needs. It comprises a set of annotated, A4-sized posters of the 737-800 cockpit panels aligned with quick reference procedures and checklists. Two sets of checklists are provided. The first is colour-coded to enable familiarisation with the location and function of the switches and levers. The second is without colour-coding, intended for use once you become familiar with the location and use of panel switches. The colour coding legend is as follows:

00	Mode Control Panel & EFIS control panel switches
00	Forward overhead panel switches
00	Rear overhead panel switches
00	Main panel and centre pedestal switches and levers
	Procedure only. No switch or lever action required

When researching checklists for the 737-800, it became evident that no one set checklist exists. Yes, there is generally a common flow of primary procedures, but the articulation of those procedures varies. This resource is based on a previous *Aussie Star Flight Simulation (ASFS)* publication, *Flying the NG: A Flight Crew Operations Manual for the Boeing 737-800 NG*. That publication was itself based on research primarily the Flight Crew Operations Manual (FCOM) for the Boeing 737-800. The design of this resource combines both procedures and checklists so that by following them you should be able to develop proficiency in the operation of this aircraft.

As with all *ASFS* publications there is no guarantee as to the accuracy of the information provided. While I once held a Private Pilot Licence (PPL) I don't profess to be an aviation expert. Any identified inaccuracies or suggestions for improvement will be welcomed.

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FOR FLIGHT SIMULATION PURPOSES ONLY



PMDG 737-800 NGX Quick Reference Procedures & Checklists

Electrical Power Up		
Battery switch.....	GUARDS CLOSED	12
Standby Power switch.....	GUARDS CLOSED	14
Alternate Flaps Master switch.....	GUARDS CLOSED	3
Windshield Wiper Selectors.....	PARK	19
Electric Hydraulic Pump switches.....	OFF	28
Ground Power switch (if required).....	ON	16
 APU Start		
Left Centre Tank Fuel switch.....	ON	11
APU Start switch.....	START	43
APU Generator Bus switches.....	ON	18
APU Bleed switch.....	ON	36
 Cockpit Preparation		
IRS Mode Selectors.....	OFF then NAV	5
Flight Control switches	GUARDS CLOSED	1
Flight Spoiler switch.....	GUARDS CLOSED	2
Yaw Damper switch.....	ON	5
Alternative Flaps Master switch.....	GUARDS CLOSED	3
Alternate Flaps Position switch.....	OFF	4
VHF NAV Transfer switch.....	NORMAL	6
IRS Transfer switch.....	NORMAL	7
Source Selector.....	AUTO	8
Control Panel Select switch.....	NORMAL	9
Cross Feed Selector.....	CLOSED	10
Fuel __ lbs.....	CHECK	5
Fuel Pump switches (except left tank if APU is ON).....	OFF	11
Battery switch.....	GUARD CLOSED	12
Cab/Util Power switch.....	ON	13
Standby Power switch.....	GUARD CLOSED	14
Gen Drive Disconnect switches.....	GUARDS CLOSED	15

Bus Transfer switch.....	GUARD CLOSED	17
Equipment Cooling.....	NORM	20
Emergency Exit Lights switches.....	ARMED	21
Passenger signs.....	ON	22
Windshield Wiper selectors.....	PARK	19
Window Heat switches (4).....	ON (Under 10° TAT)	23
Probe Heat switches.....	OFF	24
Wing Anti-Ice switch.....	ON (Under 10° TAT)	25
Engine Anti-Ice switches.....	ON (Under 10° TAT)	26
Engine Hydraulic Pumps switches.....	ON	27
Electric Hydraulic Pump switches.....	OFF	28
Air Temperature Source Selector.....	AS NEEDED	29
Trim Air switch.....	ON	30
Temperature selectors (3).....	AS REQUIRED	31
Recirculation Fan switches.....	AUTO	32
Aircon Pack switches.....	AUTO	33
Isolation Valve switch.....	OPEN	34
Engine Bleed Air switches.....	ON	35
APU Bleed Air switch.....	ON	36
Flight Alt Indicator.....	CRUISE ALTITUDE	37
Landing Alt Indicator.....	DESTINATION ELEVATION	38
Pressurisation Mode Selector.....	AUTO	39
Landing Light switches (4).....	OFF	40
Runway Turnoff Light switches.....	OFF	41
Taxi Light switch.....	OFF	42
Ignition Select switch.....	IGN L or IGN R	44
Engine Start switches.....	AUTO or OFF	45
Logo Light switch.....	ON	46
Strobe Light switch.....	OFF	47
Position Light switch.....	ON	47
Anti Collision Light switch.....	OFF	48
Wing Light switch.....	OFF	48
Wheel Well Light switch.....	OFF	48
Minimums Reference selector.....	RADIO or BARO	1
Barometric Reference selector.....	IN or HPA	2
Barometric Selector.....	Set QNH	2
VOR/ADF Switches.....	Set AS NEEDED	3

Mode Selector.....	MAP	4
Range Selector.....	AS NEEDED	5
Course.....	SET	6
Flight Director Switch.....	ON	9
Autopilot.....	DISENGAGE Bar UP	23
Clock.....	SET	12
Main Panel Display Unit Selector.....	NORM	9
Lower Display Unit Selector.....	NORM	9
Com Radios.....	SET	26
Nav Radios.....	SET	27
ADF.....	SET	29
Transponder.....	SET, OFF	32
Speed Brake Lever.....	DOWN DETENT	17
Reverse Thrust Levers.....	DOWN	20
Forward Thrust Levers.....	CLOSED	21
Engine Start Levers.....	CUTOFF	22
Flap Lever.....	SET	18
Parking Brake.....	SET	23
Landing Gear Lever.....	DN	16

Before Start Checklist

Flight deck door.....	CLOSED & LOCKED	34
CDU Display.....	SET	7
N1 bugs.....	CHECK	11
IAS bugs.....	SET	11
Auto Throttle Arm switch.....	ARM	10
IAS/MACH selector.....	SET V2	12
LNAV.....	ARM	17
Heading.....	RWY Heading SET	16
Initial Altitude.....	SET	18
Takeoff Briefing.....	COMPLETE	
Passenger Doors.....	CLOSED & LOCKED	
Flight Deck Windows.....	CLOSED	
Pushback & Start Clearance.....	OBTAIN	

Engine Start - During Pushback

Transponder.....	STANDBY	32
Anti Collision Light.....	ON	48
L & R Centre Fuel Pump switches.....	ON	11
Engine Hydraulic Pump switches.....	ON	27
Electric Hydraulic Pump switches.....	ON	28
Air Con Pack switches.....	OFF	33
Ignition Select switch.....	Engine Left	44
Left Engine Start switch.....	GND	45
Wait until N2 > 20%		
Left Start Lever.....	ON	22
Left Engine Start switch.....	CONT	45
Repeat for Right Engine start		
Engine Bleed Air switches.....	ON	35

After Start

Generator switches 1 & 2.....	ON	18
Window Heat switches (4).....	ON	23
Probe Heat switches.....	ON	24
Wing Anti-ice switches.....	ON (Under 10° TAT)	25
Engine Anti-ice switches.....	ON (Under 10° TAT)	26
Pack switches.....	AUTO	33
Trim Air switch.....	ON	30
Isolation Valve switch.....	AUTO	34
Yaw Damper switch.....	ON	5
APU Bleed switch.....	OFF	36
APU switch.....	OFF	43
Engine Start switches.....	CONT	45
Engine Start Levers.....	IDLE detent	22
Master Caution Light.....	OFF	

Taxi

Taxi Clearance.....	OBTAINED	
Ground Equipment.....	REMOVED	
Flight Controls.....	CHECK	
Taxi Lights.....	ON	42

Before Takeoff		
Flaps.....	SET FOR TAKEOFF	18
Trim.....	SET__UNITS	19
MCP.....	CHECK	
Cabin Report.....	RECEIVED	
Cockpit Door.....	LOCKED	34
Takeoff Briefing.....	REVIEWED	
-----THE LINE-----		
Takeoff Clearance.....	OBTAINED	
Strobe Lights.....	ON	47
Wing Lights.....	ON	48
Landing Lights.....	ON	40
Taxi Lights.....	OFF	42
Engine Start Switches.....	CONT	45
Transponder & TCAS.....	ON & TA/RA	32
Auto Throttle.....	ARMED	10
Takeoff		
Throttles.....	to 40% N1	21
TOGA.....	ENGAGED	21
Throttles.....	SET TAKEOFF POWER	21
Brakes.....	RELEASED	23
After Takeoff		
Positive Climb.....	GEAR UP	16
1000 feet.....	ENGAGE AUTOPILOT	22
3000 feet.....	SPEED TO 250 KIAS	13
Gear.....	UP & OFF	16
Auto Brakes.....	OFF	10
Engine Start switches.....	OFF	45
Altimeters.....	SET & X-CHECK	2
Air Con & Pressure.....	CHECKED & SET	32
<u>At 10,000 feet</u>		
Landing Lights.....	OFF	40
Seat Belt Sign.....	OFF	22
Cabin Altimeter.....	CHECK	37
<u>At Transition Level FL180</u>		
Altimeter.....	SET TO STD	2

Descent	
<u>30 nm before T/D</u>	
Anti-ice.....	ON (Under 10° TAT) 25/26
Air Con & Pressure.....	SET 33-35
Pressurisation.....	SET LANDING ALTITUDE 38
Start Switches.....	AS REQUIRED 45
Speed bug.....	SET ...to FL240 0.75 MACH . to FL 180 0.65 MACH . to FL120 280 KIAS below 10,000 ft 250 KIAS 13
Landing Data.....	VREF___, MIMIMUMS___
Approach Briefing.....	COMPLETE
<u>At 10,000 feet</u>	
Altimeters.....	SET to QNH 2
Landing Lights.....	ON 40
Fuel Quantities and Balance.....	CHECK 5
ATIS Information.....	RETREIVE
Vref Speeds.....	CHECKED 7
Approach	
<u>Interception of Localiser</u>	
Seat Belt Sign.....	ON 22
Engine Start switches.....	CONT 45
NAV Radios.....	SET 26
Speed: Established.....	210 KIAS 13
Autobrake.....	SET 10
Spoilers.....	ARMED, GREEN LIGHT 17
Flaps.....	5 – 10° 18
Speed: Established.....	180 KIAS 13
Flaps.....	15 – 20° 18
Speed: Established.....	160 KIAS 13
Landing Gear.....	DOWN 16
Flaps.....	30° or FULL 18
<u>Final Glideslope Descent</u>	
Speed: Establish.....	145 KIAS 13
Parking Brake.....	VERIFY OFF 23
Missed Approach Altitude.....	SET 18

Landing		
Landing Gear.....	CHECK DOWN, 3 GREEN	16
Flaps.....	SET, GREEN LIGHT	18
Autopilot.....	OFF	23
Autothrottle.....	OFF	10
Speed: Established.....	140 KIAS	
After Touchdown.....	APPLY REVERSE THRUST	20
60 KIAS.....	CANCEL REVERSE THRUST	20
After Landing		
Strobe Light.....	OFF	47
Landing Lights.....	OFF	40
Taxi Lights.....	ON	42
Runway Turnoff Lights.....	ON	41
Transponder.....	1200 / OFF	32
Autobrake.....	OFF	10
Flaps.....	UP	18
Spoilers.....	RETRACTED	17
Stabiliser Trim.....	SET FOR TAKEOFF	19
APU.....	START / CHECK RUN	43
APU Gen switches.....	ON	18
Engine Start switches.....	OFF	45
Window Heat switches.....	ON (Under 10° TAT)	23
Probe Heat switches.....	OFF	24
F/D switches.....	OFF	9
Shutdown		
Parking Brake.....	SET	23
Throttles.....	IDLE	21
Engine Start Levers.....	CUT OFF	22
Passenger Signs.....	OFF	22
Anti Collision Light.....	OFF	48
Window Heat.....	OFF	23
Probe Heat.....	OFF	24
Anti-ice.....	OFF	25/26
Electric Hydraulic Pumps.....	OFF	28
Fuel Pumps.....	OFF	11
Left Centre fuel pump remains ON if APU is ON		

Recirculation Fans.....	AS REQUIRED	32
Air Con Packs.....	AUTO	33
Isolation Valve switch.....	OPEN	34
Engine Bleed Air switches.....	ON	35
APU Bleed Air switch.....	ON	36
Terminating Flights Cockpit Secure		
IRS Mode Selectors.....	OFF	5
Galley Power.....	OFF	13
Emergency Exit Lights.....	OFF	21
Air Con Pack switches.....	OFF	33
APU.....	OFF	43
Ground Power.....	OFF	16
Battery Switch.....	OFF	12

Legend

00	Mode Control Panel & EFIS control panel
00	Forward overhead panel switches
00	Rear overhead panel switches
00	Main panel and centre pedestal switches and levers
	Procedure only. No switch or lever action required



1	FLT CONTROL switches	17	BUS TRANSFER switch	33	AIR CON PACK switches
2	SPOILER switches	18	APU GEN BUS switches	34	ISOLATION VALUE switch
3	ALT FLAPS Master switch	19	WINDSHIELD WIPER switch	35	ENGINE BLEED Air switches
4	ALT FLAPS Position switch	20	EQUIPMENT COOLING	36	APU BLEED AIR switch
5	YAW DAMPER switch	21	EMERGENCY EXIT switch	37	FLIGHT ALT Indicator
6	VH NAV Transfer switch	22	PASSENGER SIGNS	38	LANDING ALT Indicator
7	IRS Transfer switch	23	WINDOW HEAT switches	39	PRESS MODE Selector
8	SOURCE Selector switch	24	PROBE HEAT switches	40	LANDING LIGHT switches
9	CONTROL PANEL switch	25	WING ANTI-ICE switch	41	RUNWAY TURNOFF lights
10	CROSS FEED Selector	26	ENGINE ANTI-ICE switch	42	TAXI light switch
11	FUEL PUMP switches	27	ENGINE HYD PUMP	43	APU START switch
12	BATTERY switch	28	ELECTRIC HYD PUMP	44	IGNITION SELECT switch
13	CAB/UTIL switch	29	AIR TEMP SOURCE selector	45	ENGINE START switches
14	STANDBY POWER switch	30	TRIM AIR switch	46	LOGO light switch
15	DRIVE DISCONNECT	31	TEMP SELECTORS	47	POSITION/STROBE light
16	GROUND PWR switch	32	RECIRCULATION FANS	48	ANTI COLLIS/WING lights

737-800 NGX Main Panel



EFIS Control Panel (ECP)



1	Minimums Reference Selector
2	Barometric Selector
3	VOR / ADF Switches
4	Mode Selector
5	Range Selector
6	Flight Path Vector Switch
7	Meters Switch

Mode Control Panel (MCP)



8	Course Selector
9	Flight Director Switch
10	Auto Throttle Switch
11	N1 / Speed Selectors
12	IAS / MACH Selector
13	Airspeed Selection Bug
14	Speed Intervention Switch
15	Level Change Selector
16	Heading Selection Bug
17	Navigation Selection (VNAV LNAV, VOR/LOC, APP)
18	Altitude Selection Bug
19	Altitude Hold Switch
20	Altitude Intervention Switch
21	Vertical Speed Switch & Selector
22	Auto Pilot Switches
23	Auto Pilot Disengage Switch

737-800 NGX Rear Overhead Panel



1	IRS display
2	IRS Display Selector switch
3	IRS Display Brightness control
4	Leading Edge Devices Position indicator
5	ILS Selector switches
6	Dome light switch
7	Service interphone switch
8	Crew & Passenger Oxygen Control
9	Coms Selectors

737-800 NG Cockpit Panels

Main Panels



Central Pedestal	
1	EFIS Control Unit (ECU)
2	Mode Control Panel (MCP)
3	Primary Flight Display (PFD)
4	Horizontal Situation Indicator (HSI)
5	Engine Indicating & Crew Alert System (EICAS) Upper DU
6	Engine Indicating & Crew Alert System (EICAS) Lower DU
Collectively, the ECU, MCP, PFD, HSI & EICAS make up the Electronic Flight Instrument System (EFIS)	
7	Control Display Unit (CDU) for the FMC
8	Brightness Control Panel
9	Display Select Switches Panel
10	Autobrake Switch
11	Flaps Indicator
12	Clock
13	Standby Instruments
14	Ground Proximity Warning System (GPWS) Panel
15	Rudder pedal adjustment handle
16	Undercarriage Gear Lever
17	Speed Brake Lever
18	Flaps Lever
19	Trim Wheel
20	Reverse Thrusters
21	Forward Thrusters
22	Engine Start Levers (or Fuel Cut-off switches)
23	Parking Brake Lever
24	Fire Detector and Extinguisher Controls
25	Stabaliser Trim Cut-off Switches
26	VHF Frequency Selector Unit
27	NAV Frequency Selector Unit
28	Audio Selector Panel
29	Navigation Radio Frequency Selector Unit
30	Flood & Panel Light Switch Unit
31	Head-up Display Guidance System Unit (HGS)
32	Transponder & TCAS Control Panel
33	Aileron Trim Control Unit
34	Flight Deck Door Lock Switch





737 - 800 CHECKLISTS

Before Start Checklist

Cockpit Preparation.....COMPLETED
 Light Test.....CHECKED
 Interphone.....CHECKED
 Nav & Displays.....AUTO/NORM
 Fuel.....__ lbs.....CHECK. PUMPS ON
 Galley Power.....ON
 Emergency exit lights.....ARMED
 Passenger Signs.....ON
 Window Heat.....AS REQUIRED
 Hydraulics.....NORMAL
 Air Conditioning.....2 PACKS, BLEEDS ON
 Pressurisation.....ISOLATION SW OPEN
 Autopilots.....DISENGAGED
 F/D.....ON
 Autobrake.....RTO
 Instruments.....X-CHECKED
 Speed Brake.....DOWN DETENT
 Parking brake.....SET ON
 Stab. Trim switches.....NORMAL
 W/well Fire Warning.....CHECKED
 Rudder & Aileron Trim.....FREE and ZERO
 FMC/CDU.....SET
 FMS Speeds.....SET & CHECKED
 Clock.....SET ON
 Papers.....ABOARD & CORRECT
 Takeoff Briefing.....COMPLETE

Cleared for Start/Pushback Checklist

Doors.....CLOSED
 N & IAS Bugs.....SET
 Fuel.....__ lbs.....Pumps ON
 'A' Pumps (if pushback).....OFF
 Flight deck Windows.....LOCKED
 Air Conditioning Packs.....OFF
 Anti Collision Lights.....ON

After Start Checklist

Electrical.....GENERATORS ON
 Window Heat.....ON
 Probe Heat.....ON
 Anti Ice.....AS REQUIRED
 Hydraulic Pumps.....ON
 Air Con.....Packs ON, Trim Air ON
 Pressurisation.....Isolation Switch AUTO
 Yaw Damper.....ON
 APU Bleed Switch.....OFF
 APU.....AS REQUIRED
 Start Levers.....IDLE Detent
 Ground Equipment.....REMOVED

Taxi Checklist

Flight Controls.....CHECKED
 Flaps.....SET __ GREEN LIGHT
 MCP.....SET
 Taxi Lights.....ON
 Trims.....ZERO, ZERO __ UNITS
 Cabin Report.....RECEIVED
 Cockpit Door.....LOCKED
 T/O Briefing.....REVIEWED

Before Takeoff Checklist

Start Switches.....ON
_____THE LINE_____
Taxi Lights.....OFF
Strobe Lights.....ON
Landing Lights.....ON
Autothrottle.....ARMED
Transponder.....ON

Before Landing Checklist

Start Switches.....ON
Speedbrake.....ARMED, Green Light
LandingDOWN, THREE GREEN
Flaps.....SET, GREEN LIGHT
Missed Approach.....SET

After Takeoff Checklist

AirCon & Pressure.....CHECKED & SET
Engine Start Switches.....OFF
Landing Gear.....UP & OFF
Flaps.....UP, NO LIGHTS
Autobrake.....OFF
Passenger Signs.....AS REQUIRED
Altimeters.....SET & X-CHECKED
At 10,000 feet
Landing Lights.....OFF
Fasten Seat Belt Sign.....OFF
Altimeters.....SET (QNH / STD)
Cabin Altimeter.....CHECKED

After Landing Checklist

Transponder.....STANDBY / OFF
Radar Switches.....OFF
Speedbrake.....DOWN Detent
Flaps.....UP, No light
Stabilizer Trim.....SET
Autobrake.....OFF
Landing Lights.....AS REQUIRED
Position Lights.....STEADY
APU.....STARTED
Engine Start Switches.....OFF
Window Heat.....AS REQUIRED
Probe heat Switches.....OFF
APU Generator Switches.....ON
F/D Switches.....OFF

Descent / Approach Checklist

Anti Ice.....AS REQUIRED
Air Con & Pressure.....SET
Start Switches.....AS REQUIRED
Vref Speeds.....CHECKED
N & IAS Bugs.....SET
Autobrake.....SET
Approach Briefing.....COMPLETED
At 10,000 feet
Landing Lights.....ON
Fasten Seat Belt sign.....ON
Transition Level
Altimeter & Instruments.....SET & X-CHECK

Parking Checklist

Parking Brake.....SET
Electrical.....ON
Start Levers.....CUT OFF
Fasten Seat belt sign.....OFF
Anti Collision Light.....OFF
Window heat.....OFF
Anti Ice.....OFF
Electric Hydraulic Pumps.....OFF
Fuel Pumps.....OFF
Left Tank Pump ON if APU on
Air Conditioning.....2 Packs & Bleeds ON
Pressurisation.....Isolation Switch OPEN
Exterior Lights.....AS REQUIRED
IRS Selectors.....ALIGN, OFF
ADF & HF Radio.....OFF



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