



Normal Procedures Checklist



INITIAL COCKPIT PREP

- BATT SW ON
- STBY PWR AUTO
- HYD ELEC PMPS..... OFF
- HYD DEMAND PMPS OFF
- LDG GEAR DOWN
- ALT FLAP NORM
- GND PWR CONN..... EST
- EXT PWR ON
- L/R BUS TIES (2)..... AUTO
- AC BUS OFF LTS..... OFF
- L/R UTILITY BUS ON
- L/R GEN CONT SW ON
- LWR EICAS STATUS PG SEL
- WING LTS.... Fuselage Sides..... ON

- APU BLEED AIR VERIF ON
- APU SW START
- APU GEN ON/AR
- AVIONICS MSTR.....Sound Xtra ON/AR
- IRS SWITCHES.....VERIFY ALIGN..... NAV
- FMC PRES POS ENTERED
- L/R YAW DAMPER ON
- EEC SWITCHES ON

- PRI HYD PMPS SEL ON
- RAT UNLKD LT OFF
- ENG IGN SEL SINGLE
- FUEL PMPS OFF
- FUEL XFEEDS OFF
- WING/ENG ANTI-ICE OFF
- NO SMKG LT..... ON
- SEAT BELTS AUTO

- GND AIR CONN....APU OFF/INOP..... EST/AR
- L/R ISOL VALVES OPEN
- CNTR ISOL VALVE OPEN
- PACKS.....Cabin Pressurization..... AUTO
- TRIM AIR ON
- L/R RECIRC FANS ON
- COMP TEMPS AUTO
- F/D ON
- CREW/PASS O₂ VERIF 100%

- CALL FSS.....OPEN FLT PLN DONE
- CALL CLEARANCE..... DONE
- SET TRANSPONDER..... ENTERED
- FMC SETUP COMPLETE**

- CREW WELCOME BRIEF...SCombo..... START

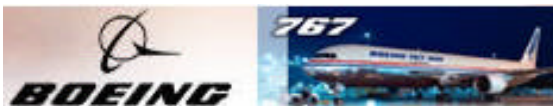
BEFORE PUSHBACK

- BARO PRESS..... SET
- ALTIMETER..... CKD
- VSI..... CKD
- CLOCK..... SET
- ADI..... CKD
- HSI TRK/HDG CKD
- ROUTE..... VERIF
- ND MAP MODE
- ND RANGE..... 10 NMI
- MAP SW A/R
- A/S INDICATOR CKD
- A/S TAKE-OFF VREF SPD BUGS..... SET
- RDMI..... CKD
- FUEL SWITCHES OFF
- THROTTLES IDLE
- FLAPS..... UP
- SPOILERS / SPEEDBRAKE..... DOWN
- PKG BRAKE SET
- STAB TRIM SW NORM

- L/R ENG/APU FIRE SW IN
- CARGO FIRE SW OFF
- FIRE BOTTLE DISCH LTS OFF
- FIRE / OVHT TEST BTN..... PRESS
- RES BRK/STRG SW OFF
- STBY INST SET/CKD
- STBY ENGINE IND AUTO
- AUTOLAND STATUS CKD
- AUTO BRAKES OFF
- ALT GEAR EXTEND CKD
- ALT FLAPS SEL NORM
- ALT FLAPS SW OFF
- GPWS/GEAR SW OFF
- GPWS/FLAP SW OFF
- RED ANTI-COL BEACON..... ON
- T/O REF MODE SET/VERIF
- VHF COMM SET
- INST SOURCE SET
- FUEL LOAD VERIF
- MCP HDG/ALT..... SET
- MCP SPD.....TO V2..... SET
- GND PWR CONN..... DISC
- GND AIR CONN.....DISC..... DISC/VERIF

- CALL GROUND CONTROL..... DONE
- CALL GND FOR PUSHBACK..... DONE
- SEAT BELTS ON
- CREW GATE DEPARTURE BRIEF START

- | | |
|-----------------|-------------|
| PUSHBACK | DONE |
|-----------------|-------------|



Normal Procedures Checklist



BEFORE START

- [] PKG BRAKE SET
- [] HYD ELEC PMPS ON
- [] HYD DEMAND PMPS AUTO
- [] PACKS.....Cabin Pressurization..... OFF
- [] ENG OIL QTY >18 QT
- [] APU BLEED ON/VERIF
- [] DUCT PRESS >25 PSI
- [] FUEL PMPS ON
- [] FUEL X-FEEDS OPEN
- [] L/R ENGINE BLEEDSCABIN O2..... ON
- [] SEC EICAS SEL
- [] STAB TRIM SET
- [] FLT CNTLS..... FREE/CORRECT..... CKD
- [] POSITION-NAV LTS..... ON

- [] CAPTAIN'S BRIEF.....RATS..... COMPLETE

ENGINE START

STARBOARD ENGINE

- [] ENGINE START #2 R..... SET
- [] START SEL..... GND
- [] RT FUEL CNTRL SW...@ 20% N2... ON
- [] RT START SW...AFTER 50% N2..... VERIF AUTO

PORT ENGINE

- [] ENGINE START #1 L..... SET
- [] START SEL..... GND
- [] LF FUEL CNTRL SW...@ 20% N2... ON
- [] LF START SW...AFTER 50% N2..... VERIF AUTO

AFTER START

- [] START VALVES CLSD
- [] ENG OIL TEMP & PRS CKD
- [] ENG VIB CKD
- [] APU SW OFF
- [] ISOL VALVES L&R CLSD
- [] PACK CTL SWITCHES AUTO
- [] GEN CNTL VERIF
- [] HYD EDP'S VERIF

- [] ENGINE ANTI-ICE A/R
- [] WING ANTI-ICE A/R
- [] EICAS ALERTS RECALLED
- [] EICAS ALERTS VERIF/CLRD
- [] TRP T/O..... VERIF
- [] V SPDS VERIF
- [] PITOT HEAT..... ON

TAXI

- [] TURN-OFF LTS ...On Nose Gear..... ON
- [] PKG BRAKE REL
- [] MCP SPD/HDG/ALT VERIF
- [] FLAPS.....GOOD WX ONLY..... 15 SET
- [] FLT CONTROLS..... VERIF
- [] STAB TRIM SET
- [] SPOILERS / SPEEDBRAKE..... DOWN
- [] FUEL..... CKD
- [] EICAS..... CKD
- [] AUTOBRAKES85knts..... RTO

- [] MISSED APPRCH PROC..... REVIEW
- [] CREW TAXI SAFTEY BRIEF..... START

BEFORE TAKE-OFF

- [] CREW T/O BRIEFING COMPLETE
- [] FLAPS..... 15 SET /AR

- | | |
|------------------------------|--------|
| [] FLAP SETTING | CKD X2 |
| [] STAB TRIM | CKD |
| [] AUTO BRAKES.....RTO..... | CKD |

- [] FMC FLT PLN ACTIVE..... VERIF
- [] LANDING LTS ON
- [] WHITE ANTI-COL STROBES..... ON

- [] FD PITCH BAR VERIF
- [] AUTO THROTTLE..... ARM
- [] MCP HDG/ALT CKD
- [] MCP SPD.....TO V2..... CKD
- [] CLOCK ELAPSED TIMER..... RUN/RECORD

TAKE-OFF

- [] EICAS ALERTS CLR/VERIF
- [] THROTTLES FORWARD..... 70% N1 SET
- [] ALLOW ENGINE TO STABILIZE..... VERIF
- [] AUTO PILOT BAR..... ENGAGE
- [] TRP N1 SET T/O MODE SEL
- [] N1..... X-CHECK
- [] T/O N1/EPR CONFIRMED

- | | |
|-------------------------------------|----------|
| [] CALL OUT V1..80KNTS..THR HLD... | COMPLETE |
| [] CALL OUT VR.....ROTATE..... | COMPLETE |
| [] CALL OUT V2.....POS CLIMB..... | COMPLETE |
-
- | | |
|------------------|------------|
| [] GEAR UP..... | UP/ LT OFF |
|------------------|------------|

- [] MISSED APPRCH PROC..... A/R



Normal Procedures Checklist



AFTER TAKE-OFF

1000 AGL

- [] MAINTAIN...V2 + 15 KNTS..169+/-... HOLD
- [] GEAR UP.....LTS.....OFF..... VERIF
- [] SET LNAV@ 1000 AGL..... ON/AR
- [] SET VNAV.....@ 1000 AGL..... ON/AR
- [] FLAPS...VREF +80..@ 1000 AGL... UP
- [] AUTO PILOT.....@ 1000 AGL ON/AR
- [] TRP N1 SET CLB MODE SET
- [] AUTO BRAKES OFF
- [] ENG PARAMETERS CKD
- [] EICAS ALERTS VERIF
- [] MAX SPD.....< 250 KNTS..... VERIF
- [] TURN-OFF LTS ...On Nose Gear..... OFF

10,000 FT

- [] LDG LTS OFF
- [] WING LTS.... Fuselage Sides..... OFF
- [] CLB SPEED VERIF/SET
- [] FMC PROGRESS CKD
- [] MAX SPD..... 250 KNTS VERIF

FL 180

- [] ALTIMETERS.....29.92 IN HG..... SET
- [] MAX SPD..... + 250 KNTS VERIF

CRUISE

- [] TRP N1 SET CRZ MODE SET
- [] SEAT BELTS OFF
- [] FMC PROGRESS CKD
- [] TRIM..... CKD
- [] FUEL MGT CKD
- [] CREW BEV / CRUISE BRIEF..... START

BEFORE DESCENT

- [] APPRCH CHARTS / LDG DATA..... VERIF
- [] MISSED APPRCH PROC..... REVIEW
- [] FMC RTE 2...MISSED APPRCH LEGS..... SET
- [] FMC PLAN VERIF
- [] DH RA..... SET
- [] NAV 1 (ILS) / NAV 2..... SET/AR
- [] FMC APPRCH REF... FLAP/SPD..... SET
- [] A/S VREF APRCH BUGS SET
- [] FLAP SPEEDS CONFIRMED
- [] **MCP ALT.....ONCE CLEARED.....SET**

DESCENT

- [] SEAT BELTS..... ON
- [] CREW LDG BRIEFING COMPLETE
- [] WING/ENG ANTI-ICE A/R
- [] SPOILERS / SPEEDBRAKE..... A/R

FL 180

- [] ALTIMETERS.....TO LOCAL..... SET

10,000 FT

- [] MAX SPD..... 250 KNTS VERIF
- [] LDG LTS ON
- [] WING LTS.... Fuselage Sides..... ON
- [] AUTOBRAKES..... SET
- [] EICAS ALERTS CLR/VERIF

FINAL APPROACH

- [] NAV 1 (ILS) / NAV 2..... CKD
- [] G/S CAPTURE ALT SET
- [] ALTIMETERS.....TO LOCAL..... VERIF
- [] A/S APRCH BUGS VERIF
- [] LOC/APPR MODE.....2000 RA..... ARMED
- [] FLAPS ON SCHEDULE
- [] EICAS ALERTS VERIF
- [] MCP MISSED APPROACH ALT SET
- [] RIGHT YAW DAMPERRudder..... OFF

GLIDESLOPE CAPTURE

- [] SPD V₃₀.....FLP 30 APRCH SPD..... SET
- [] **GEAR.....2000' RA..... DOWN**
- [] FLAPS FULL... 1500' RA..... 30 SET
- [] SPOILERS / SPEEDBRAKE..Shft / ARMED/SET
- [] TRIM CKD
- [] AUTOLAND MODES VERIF/AR
- [] MAP HDG/ALT SET
- [] EICAS ALERTS VERIF
- [] TURN-OFF LTS ...On Nose Gear..... ON

- [] * MAN LNDG...AP DISC @DH..... OFF
- [] ** MAN LNDG...AUTO THR...500RA..... OFF
- [] *** FLARE 10' AGL....PWR IDLE..... SET
- [] **MISSED APPRCH PROC** A/R

MISSED APPROACH PROCEDURE

- [] THROTTLES FULL FORWARD..... 100% N1 SET
- [] TRP N1 SET T/O MODE SEL
- [] FLAPS.....20..... 20 SET
- [] **CALL OUT V2.....POS CLIMB..... COMPLETE**
- [] **GEAR UP.....UP/ LT OFF**
- [] GEAR UP.....LTS.....OFF..... VERIF
- [] **FMC RTE 2...MISSED APPRCH..... SEL/ACTIVATE**
- [] LNAV or HDSEL.....400 AGL..... SEL
- [] **MCP SPD VREF+ 80 @ 1000 AGL SET**
- [] SET FLCH@ 1000 AGL..... ON/AR
- [] FLAPS UP..... ON SCHEDULE
- [] MISSED APPRCH...ROUTE/ALT/HLD.... VERIF



Normal Procedures Checklist



SECURING

- [] CLEAR OF ACTIVE RUNWAY..... CONFIRMED
- [] FLAPS..... UP
- [] AP.....DISENGAGE..... OFF/VERIF
- [] F/D OFF
- [] A/T..... DISARM/VERIF
- [] SPOILERS / SPEEDBRAKE..... DOWN
- [] LDG LTS OFF
- [] WHITE ANTI-COL STROBES..... OFF

- [] AUTO BRAKES..... OFF
- [] APU..... START/AR
- [] WING/ENG ANTI-ICE..... OFF
- [] PITOT HEAT..... OFF
- [] CREW TAXI / GATE BRIEF..... COMPLETE

Gate Parking

- [] PKG BRAKE SET
- [] TURN-OFF LTS ...On Nose Gear..... OFF
- [] POSITION-NAV LTS..... OFF
- [] WING LTS..... OFF

- [] APU ON VERIF/SET/AR
- [] APU GEN ON/AR
- [] APU BLEED VERIF ON
- [] EEC SWITCHES OFF
- [] L/R FUEL CNTRL SWITCHES OFF
- [] ENG / SPAR VALVE LT...OFF..... VERIF
- [] RED ANTI-COL BEACON..... OFF
- [] SEAT BELTS OFF

- [] GND PWR CONN..... EST
- [] EXT PWR ON
- [] LEFT YAW DAMPER OFF
- [] FUEL PUMPS OFF
- [] FUEL X-FEEDS..... OFF
- [] CLOCK ELAPSED TIMER..... STOP/RECORD
- [] HYD DEMAND PMPS OFF
- [] PRI HYD PMPS OFF
- [] HYD ELEC PMPS OFF
- [] IRS MODE / IRU SHUTDOWN..... OFF/SET

- [] GND AIR CONN EST/AR
- [] PACKS.....Cabin Pressurization..... A/R
- [] TRIM AIR A/R
- [] RECIRC FANS A/R
- [] EICAS ALERTS RECALLED..... RECORDED
- [] **FUEL/FLT DATA..... RECORDED**
- [] CALL FSS.....CLOSE FLT PLN DONE

- [] NO SMKG LT..... OFF
- [] FLAPS.....UP..... VERIF
- [] SPOILERS / SPEEDBRAKE.DWN..... VERIF

- [] APU GEN OFF
- [] APU..... OFF
- [] APU BLEED..... OFF
- [] TRIM AIR OFF
- [] RECIRC FANS OFF
- [] ISOL VALVES L&R OFF/VERIFY
- [] L/R GEN CONT SW OFF
- [] L/R ENGINE BLEEDSCABIN O2..... OFF

- [] L/R UTILITY BUS..... OFF
- [] EXT PWR OFF/AR
- [] L/R BUS TIES (2)..... OFF
- [] BATT OFF/AR
- [] STBY PWR OFF
- [] Clean-up your own mess -Your Mom Doesn't work here.

- [] THAT'S IT, FLIGHT COMPLETE!..... *STRETCH*

MAX FUEL QUANTITY

LF WING TANK	CENTER	RT WING TANK
40,700 LBS	80,400 LBS	40,700 LBS
TOTAL MAX FUEL 161,800 LBS		

Speed and BUG Settings

- [] RTO SPEED.....Armed..... 85 KNTS
- [] V1.....DECISION SPEED..... KNTS
- [] V2...T/O SFTY SPD..35' AGL 1 E/O
- [] VR.....ROTATION SPEED.....

T/O BUGS

READ CLOCKWISE

- [] V1..... KNTS
- [] **V2.....MCP SPD SET.....** KNTS
- [] Vref30 + 20.....FLAP RETRACTION KNTS
- [] Vref30 + 30.....FLAP RETRACTION KNTS
- [] Vref30 + 60.....FLAP RETRACTION KNTS
- [] Vref30 + 80.....FLAP RETRACTION KNTS

APPROACH BUGS

- [] VREF.....FLP 30 SPD..... KNTS
- [] Vref30 + 20.....FLAP ADDITION KNTS
- [] Vref30 + 30.....FLAP ADDITION KNTS
- [] Vref30 + 60.....FLAP ADDITION KNTS
- [] Vref30 + 80.....FLAP ADDITION KNTS