

PREPARATION

Cockpit Prep COMPLETE
Power OFF Checks COMPLETE
APU or GPU AS REQ
Power ON Checks COMPLETE

Avionics & Flight Instruments SET
Altimeters & ALT Alerter SET
NAV & FMS SET
Takeoff Speeds SET
Pressure/Temp Control SET

Pax Brief & Demo COMPLETE

BEFORE START

Nose Gear Pin INSTALLED
Pilot Window OPEN
Battery/Ext Pwr AS REQ
Volts/Amps CHKD
Exterior/Pax Advisory Lights AS REQ
EMER LTS ON-CHKD-ARMED
AC Control Switches ON
STBY FLT Display ON/UNCAGE
Annunciator Panel CONSIDERED
Aux Hyd Pump/Pressure AUTO/CHKD
Park Brake/Chocks SET/AS REQ
Aux Hyd Pump OFF
Fuel Transfer Switch CYCLED/AUTO
Fuel Quantity CHKD
Thrust Levers CUTOFF

Before Each Engine

Fuel Control Switch NORM/LIGHT OUT
Fuel Standby Pump Switch AUTO/ON

AFTER START

Engine Instruments CHKD
GPU (if connected)/Chocks DISC/REMOVE
Volts/Amps CHKD (30A Diff)
Batt Temp CHKD
Circuit Breakers CHKD
Avionics Power ON
Fuel Standby Pump (L/R) OFF/AUTO
Fuel Control Manual Mode (L/R) CHKD
Main Hyd System Pressure CHKD
Hydraulic Tank Pressure Light OUT
Aux Hyd Pump Switch AUTO/CHKD
Cabin Air Selector/Grnd Cooling AS REQ
Manual Pressurization ON-CHKD-OFF
Cabin/Galley/Ent AS REQ
Pax Announcement or Autobriefing AS REQ
APU AS REQ

BEFORE TAXI

Flight Controls CHKD
Slats/Flaps SET
Ground & Flight A/B Switch CHK/SET
Pitch/Aileron/Rudder Trim CHKD/SET
Pressurization LFE SET
Temp Control (Cockpit/Cabin) AS REQ
Anti-Ice/Deice CHKD
Engine Anti-Ice CHKD
Windshield Heat CHKD
Autopilot/YD CHKD
Avionics & Flight Instruments CHKD/SET
Altimeters/Altitude Alerter CHKD/SET
NAV & FMS SET
Flight Director GA
HSI/Mode Selector SET
AHSR (if installed) NO FLAGS
Takeoff Data SET
Annunciator Panel CONSIDERED

Airport Diagram DISPLAY
Taxi Clearance & Brief COMPLETE
ATC/TCAS ALT ON/TA Only
Exterior Lights AS REQ

TAXI

Brakes/Steering CHKD
T/R Switches CHKD/ON
T/R's IDLE DEPLOY/STOW
Flight Controls CHKD

CROSSING A HOLD LINE OR RWY

Clear to Cross/Enter VERIFIED
Anti-Collision Lights ON
Runway and Final CHKD CLEAR

BEFORE TAKEOFF

BATT Switch ON
Flight Controls CHKD
Cabin Air Selector BOTH
Pressurization ON
Baggage Heat AS REQ
Ground Cooling (if installed) OFF
Pilot DV Window CLOSED
Trims(3) CHKD
Fuel Quantity CHKD
PROBES HEAT Switch CHKD
Anti-Ice/De-ice AS REQ
Radar STBY
Crew Briefing COMPLETE
PAX Announcement COMPLETE

LINE UP

Exterior Lights AS REQ
TCAS TA-RA/ABV
Engine Instruments CHKD
APR (if installed) ARM
Ignitions AUTO or ON
PFRATS (Pilot Flying) COMPLETE

Parking Brake CHKD
Flaps/Slats SET
Runway Assigned VERIFIED
A/B/Annunciators/Altimeters CHKD
Trims CHKD
Speeds CHKD

AFTER TAKEOFF/CLIMB

Landing Gear UP
Flaps/Slats UP
Power CLIMB
Yaw Damper ON
T/R Switches OFF
APR (if installed) OFF
Anti-Ice/Deice AS REQ
Exterior Lights AS REQ
Pressurization/Temp CHKD

10,000 Checks COMPLETE
FL180 Checks (or Trans Alt) COMPLETE
FL290 Checks COMPLETE

CRUISE

TCAS TA/RA NORMAL
Power SET
Systems CHKD
Fuel Quantity MONITOR
Engine Trends RECORD

DESCENT

TCAS TA/RA BLW
ATIS/Clearance CHKD
FBO/Ground Station CONTACTED
Avionics SET
PAX Announcement COMPLETE

TOD Checks COMPLETE
FL180 Checks (or Trans Alt) COMPLETE
10,000 Checks COMPLETE

APPROACH (50 n.m.)

Avionics/ Flight Instruments SET
Altimeters SET
TCAS TA/RA NORMAL
Landing Data SET
Pressurization CHKD
Crew Approach/Go Around Brief COMPLETE
PAX Advisory Lights AS REQ
PAX Announcement or Autobrief COMPLETE
Flaps AS REQ

BEFORE LANDING

PAX Announcement CHIME
Landing Gear DOWN/CHKD
Ground A/B Switch ON
T/R Switches CHKD/ON
Exterior Lights AS REQ
Annunciator Panel CHKD
Pressurization CHKD

Flaps AS REQ
Flight A/B Switch RETRACTED
Autopilot & Yaw Damper OFF
Final Gear Check 3 GREEN/NO RED

AFTER LANDING

Speed Brakes/Flaps/Trims SET
ATC/TCAS ALT ON/STBY
Pitot/Static Heat OFF
Exterior Lights AS REQ
Radar STBY
Wing De-Ice OFF
Engine Anti-Ice AS REQ
APU AS REQ

SHUTDOWN

Parking Brake/Chocks SET
Avionics PWR & STBY FLT Display OFF
Anti-Ice Systems OFF
Power Levers CUT OFF
Exterior/PAX Advisory Lights OFF

After Pax Disembark

APU/Battery Switch OFF
Parking Brake (if chocked) FULL FWD
Side Windows CLOSED
Batteries DISCONNECTED
Control Lock PULL
Window Shades/Covers INSTALL
Engine Covers (if wind milling) INSTALL

QUICK TURN

Warning Systems TEST/OFF
Return to BEFORE START

KEY

First Flight of Day	
Pause	
If Conditions Warrant	
Challenge Response	
Check and Verify	

GW	V _{REF}	V _{AC}	V _{FS}
20700	130	135	169
20000	128	133	166
19000	125	130	162
18000	122	126	158
17000	119	123	153
16000	116	119	149
15000	113	116	144

ACCEPTED

DPA FSDO

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Cockpit Preparation

Interior Preflight COMPLETE
 Documents & Keys CHKD ABOARD
 Flashlight ABOARD
 Portable Fire Ext. SERVICED/SECURE
 Cabin Inspection COMPLETE
 Crew/FA Brief COMPLETE

Power OFF Checks

Nose Gear Pin INSTALLED
 Parking Brake/Chocks SET
 Circuit Breakers CHKD
 Passenger Oxygen Switch AUTO
 Passenger Oxygen Bypass OFF
 Oxygen Shutoff Valve OPEN
 Crew Oxygen Masks CHKD/SET
 Landing Gear Lever DOWN
 Aux Hyd Pump OFF
 Cabin Air Selector/Temp RAM-AUTO-SET
 Pressurization System SET
 Compass/AOA CHKD/SET
 Gust Lock OFF
 Ground A/B Switch OFF
 Flight A/B Switch RETRACT
 Emergency Gear Handle STOWED
 Emergency Attitude Gyro C/B CHKD
 Overhead Panel Switches CHKD/SET

BATT DISC Switch BATT ON /GUARDED
 Voltmeter Switch BATT
 BATT MASTER Switch ON

Check Each Battery Voltage as Follows:

Fuel STBY PUMP ON
 FUEL CONTROL NORM
 TAXI LIGHTS ON
 Battery Voltage CHKD

(36 AH BATTERY ONLY)

24V MIN > 32°F (0 °C) / 23V MIN < 32°F (0 °C)

Fuel STBY PUMP OFF
 TAXI LIGHTS OFF
 Fuel Quantity and Balance CHECK
 Trim (HOR, AIL, RUD) SET TO ZERO
 SLATS I FLAPS Lever. 12°
 BATT MASTER Switch OFF

Exterior Power Off Preflight COMPLETE

Power On Checks

Battery Master/Voltage ON/CHECKED
 Exterior Lights AS REQ

APU/GPU (rcmd) AS REQ

Volts & Amps CHECKED

If NOT using APU/GPU, engines should be started
 within 5 min. to conserve batteries.

Switches and Circuit Breakers CHKD
 BATT MASTER Switch OVERRIDE
 Generator Switches ON
 Battery Voltage BATT I CHKD
 Voltmeters Select Switch GEN
 AUX HYD PUMP Switch AUTO/ CHKD
 Parking Brake Lever SET (PARK)
 AUX HYD PUMP Switch OFF
 Indicator Lights TEST
 VMOIMMO Switch CHKD
 STBY GYRO BATT TEST Pushbutton CHKD
 Windshield Control Test CHKD
 AOA TEST Switch CHKD
 Fuel Transfer Switch CHKD/OPEN
 Fuel Interconnect Switch CHKD/ CLOSE
 AC CONTROL Switches CHKD/ SET
 A. Both AC CONTROL Switches ALT

B. Left AC CONTROL Switch OFF
 Left voltmeter reads 115 VAC, right AC BUS
 FAIL annunciator out.
 C. Left AC CONTROL Switch NORMAL
 All AC buses powered and both AC BUS FAIL
 annunciators out.
 D. Right AC CONTROL Switch OFF
 Right voltmeter reads 115 VAC, right AC BUS
 FAIL annunciator ON.
 E. Right AC CONTROL Switch NORMAL
 All AC buses powered, both voltmeters read 115
 VAC, both annunciators off.

Avionics Switches ON
 Air Data Computer CHKD/SET
 EFIS Reversionary Modes CHKD
 Avionics Switches OFF

ANTI-SKID Pushbutton ON
 STBY GYRO UNCAGE
 Fire Detect I Bleed Leak CHKD
 Compass SLAVED
 DG Switches SLAVED
 Fuel Management Indicator:

A. DISPLAY and OPER TEST PERFORMED
 B. FUEL QUANTITY (L, R & CENTER) CHKD
 C. Fuel Distribution and Balance CHKD
 D. Payload Switch SET
 Pax OXYGEN ON Button PRESS
 (OBSERVE RED LIGHT)

Crew Oxygen CHKD
 Pressurization (A, B and R) SET
 A. A (Altitude) Knob SET FIELD ALTITUDE
 B. B (Barometric) Knob SET
 FIELD BAROMETRIC PRESSURE

C. R (Rate) Knob SET
 D. CABIN DUMP Pushbutton OFF
 E. CABIN AIR Selector L ENG
 F. MAN PRESS Pushbutton CYCLE ON THEN OFF
 Pressurization Fault Check COMPLETE
 Trim Systems (3) CHECK/SET
 Landing Gear Warning Horn CHECK
 A. Landing Gear HORN Button PRESS
 (CHK AURAL WARNING)
 B. HORN OFF Pushbutton PRESS
 Warning horn ceases and the HORN OFF switch
 GEAR light illuminates.

Gust Lock OFF
 Takeoff Warning System:
 A. HORZ STAB TRIM SET
 OUTSIDE GREEN BAND
 B. Left Thrust Lever ADVANCE
 (CHK AURAL WARNING)
 C. HORN OFF Pushbutton PRESS
 Aural warning ceases, TAKE OFF annunciator
 illuminates.

Thrust Reverser CHKD
 A. Thrust Levers IDLE
 B. T/R Sub-levers STOW
 C. T/R Fault Test Pushbutton PRESS
 (UNSAFE LIGHTS- OUT)

D. T/R Switches ON (ARM LIGHTS- ON)
 E. T/R Switches OFF (ARM LIGHTS- OFF)
 F. T/R Sub-Levers IDLE DEPLOY
 G. T/R FAULT TEST Pushbutton PRESS
 (T/R SUB-LEVERS FULL RANGE OF MOTION)
 H. T/R Sub-Levers STOW
 I. Thrust Levers CUTOFF
 TEMP BATT TEST Pushbutton PRESS
 A. Battery Temp Indicator Needles RED SCALE
 B. BATT OVERHT Annunciators ON

If ready, proceed to Before Engine Start
 If not ready, proceed as follows:

AC CONTROL Switches ALT
 BATTERY Switch OFF

Dry Motoring

Power Lever CUTOFF
 Ignition NORM
 Fuel Boost Pump ON
 Start Button PRESS/REL
 START DISG Button (after 15 sec) PRESS/REL
 Fuel Boost Pump OFF

Battery Limitations:
 3 starts per hour
 APU Start equals 1/3 battery start
 3 gen assisted equals 1 battery start
 Ext PWR assisted equals 0 battery starts

Phase of Flight

CLIMB – 10,000 MSL or AAL (Mountains)

Pax Advisory Lts AS REQ
 PED's AS DESIRED

CLIMB – Transition (FL180 or as Charted)

Altimeters X-CHKD/SET QNE (29.92)
 Exterior Lights AS REQ
 PRESS/Temp/Oxygen CHKD

CLIMB - Transition (FL290) or RVSM Airspace

Autopilot ON/ALT
 Altimeters RVSM X-CHK & RECORD
 APU OFF BEFORE FL300

TOP OF DESCENT - TOD

Pressure/Temp Controllers CHKD/SET
 TCAS TA-RA BELOW
 Anti-Ice/Deice AS REQ

DESCENT - Transition Level (FL180 or as Charted)

Altimeters X-CHKD/SET QNH
 Pressure/Temp Controllers CHKD/SET
 Exterior Lights AS REQ

DESCENT - 10,000 MSL or AAL (Mountains)

Pax Advisory Lights ON
 PED's OFF

GO-AROUND

Decision to Go Around EITHER PF or PM
 Power Levers MAXIMUM
 FD GA/Pitch Attitude CMD BARS

Use AFTER T/O procedures VREF = VAPP

PRESS Source Select Knob NORM
 O₂ CONTROL VALVE NORMAL
 Fuel X-Feed/Anti-Ice/De-Ice AS REQ

TURBULENT AIR PENETRATION

Avoid if possible. Do not chase airspeed. Maintain constant
 attitude. Avoid sudden large control movements.
 Airspeed Observe AFM Limits
 Attitude MAINTAIN
 Autopilot ON (Lateral and Pitch mode only)
 Pax Advisory Lts PASS SAFETY

USE OF EXTERIOR LIGHTING

Ext Lights	Phase of Flight (POF) – LTS ON
NAV	Aircraft Powered
BEACON	Eng Start/Run (APU/GPU opt)
TAIL FLOOD/LOGO	Night below FL180
REC/TAXI LTS	In motion blw FL180 ex-Night TOL
LANDING LTS	Night TOL
PULSE	All POF except Taxi & TOL
ANTI-COLLISION	In flight or on/crossing any RWY
WING ANTI-ICE	Cleared for TOL