
Expanded Normal Procedures

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Checklist Usage

Tasks are executed in one of two ways:

- as a sequence that uses the layout of the cockpit controls and indicators as cues (i.e., “flow pattern”).
- as a sequence of tasks organized by event rather than panel location (e.g., After Takeoff, Gear – UP, Flaps – UP).

Placing items in a flow pattern or series provides organization and serves as a memory aid.

A challenge-response review of the checklist follows execution of the tasks; the pilot not flying (PM) calls the item, and the appropriate pilot responds by verifying its condition (e.g., “Propeller Anti-Ice” [challenge] – “ON” [response]).

Two elements are inherent in the execution of normal procedures:

- use of either the cockpit layout or event cues to prompt the correct switch and/or control positions followed by the normal checklist as a done list.
- use of normal checklists as “done” lists.

Normal Procedures

The following procedures are normally conducted in a flow pattern and followed by a “done” checklist upon completion.

Before Starting Engines

Exterior Condition CHECKED

Instrument Emergency Lights (Nighttime) ON

Instrument emergency lights may be used for initial illumination of the cockpit before turning on the battery.

Airstair Door LOCKED

Emergency Exits UNLOCKED

Cabin Loading SECURE

Passenger Briefing COMPLETE

The pilot-in-command is responsible for ensuring that all passengers have been properly briefed on the following items prior to each flight:

- Smoking
- Use of Safety Belts
- Seat Positions
- Normal and Emergency Exit Operation
- Fire Extinguisher Location
- Oxygen Use
- Survival Equipment (if required)
- Overwater Equipment (if required)

Seats, Seatbelts/Shoulder
Harnesses SECURE

TOLD Cards COMPLETE

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Parking Brake SET

While applying brakes, push parking brake knob completely in, depress button on end of parking knob, and pull completely out.

Control Locks REMOVED/STOWED

Oxygen System Preflight COMPLETE

See Preflight Checklist, page 2A-10.

Oxygen Control PULL ON/SYS READY

Pilot's Instrument Panel CHECK

Pilot's Gyro SLAVED

Standby Horizon (if installed) TEST

Pilot Subpanel Switches SET L/R

Battery Bus CONFIRM NORM

Engine Anti-Ice ON

CAUTION: To minimize ingestion of ground debris, the engine anti-ice system should be ON for all ground operations.

Inverters OFF

Avionics Master OFF

EXT PWR Switch OFF

Autofeather OFF

Auto Ignition OFF

Landing Gear Control DOWN

Landing Gear Control Relay CHECK IN

Clock (control wheel). CHECK & SET

External Lights ON/AS REQUIRED

Ice Protection OFF

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Power Quadrant	SET
Power Levers	GND IDLE
Prop Levers	FULL FORWARD
Condition Levers	FUEL CUTOFF
Pedestal Switches	SET
EFIS Power (if installed)	OFF
Cabin Pressure Switch	PRESS
Pitch Trim	ON
Rudder Boost Switch	RUDDER BOOST
FMS (Universal)	ON/INITIALIZE
Oxygen Controls:	
Passenger Manual Dropout	CONFIRM PUSHED OFF
System Ready	CONFIRM ON
Copilot's Subpanel Switches	SET L/R
Window Defog	OFF
Vent Blower	AUTO
Cabin Temp Mode	OFF
Environmental Bleed Air	LOW
Bleed Air Valves	ENVIR OFF
Aft Blower	OFF
Electric Heat	OFF
Aft Heat	AS REQUIRED
Copilot's Instrument Panel	CHECK
Copilot's Gyro	SLAVED (OUT)
Clock (control wheel)	CHECK & SET
Alternate Static Source	NORMAL

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Right Circuit Breaker Panel	CHECK
Battery	ON
Voltmeters	CHECK (23V DC MIN)
Cockpit Lights	AS DESIRED
MIC Switches.	NORMAL
Cabin Lights.	OFF
Furnishing Switch	OFF
FSB Sign	ON
Annunciators	TEST
Fuel Panel	CHECK
Standby Pumps.	OFF
Crossfeed	OFF
Auxiliary Transfer Switches.	AUTO
Circuit Breakers.	IN
Fuel Quantity	CHECK
Check the main and auxiliary fuel quantity.	
Before Starting Engines Checklist	COMPLETE

Engine Starting (Battery)

See Limitations chapter for starter/generator limitations.

NOTE: Better engine service life may be obtained by alternating engine battery starts.

During engine start, crew duties should be defined and organized. The pilot monitors ITT, N_1 , and 10-second time limit for light off; the copilot is responsible for starter time limits and all other indications or abnormalities. The copilot provides verbal confirmation of oil pressure, ignition, and fuel pressure. This allows the pilot to concentrate on the two most important starting parameters: ITT and N_1 . In addition, it prevents both pilots from looking at the same gauge at the same time and leaving other indicators unmonitored.

GEN TIES (Nighttime) MAN CLOSE
Engine Anti-ice. ON
Propeller Area CLEAR
Right Engine START
 Prop Area CLEAR
 Ignition and Engine Start Switch IGN/ENG START
 Observe N_1 rotation, IGNITION ON, FUEL PRES LO
 OFF, N_1 stabilized (12% minimum).
Condition Lever. LOW IDLE
 Observe fuel flow 100 PPH and oil pressure increasing.
ITT. MONITOR

CAUTION: If no ITT rise is observed within 10 seconds after moving the Condition lever to LOW IDLE, move the Condition lever to CUTOFF and release the Ignition and Engine Start Switch to OFF. Allow 5 minutes for fuel to drain and starter to cool, then follow Engine Clearing procedures.

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ITT exceeding 820°C is abnormal; 820-1000°C is limited to 5 sec.

Oil Pressure CHECK

CAUTION: If ITT appears likely to exceed 1,000°C, move condition lever to FUEL CUTOFF and Ignition OFF. Leave engine start switches in the STARTER ONLY position. Continue monitoring the engine to reduce ITT below 400°C. Do not attempt another start until the cause of the hot start or hung start has been corrected.

NOTE: After aborting start attempt, allow 60 seconds delay for fuel draining, motor the engine for a minimum of 15 seconds, and allow the engine to stop completely before attempting another start.

Condition Lever (Battery Start) HIGH IDLE

May be left in low idle for GPU start.

Ignition and Engine Start Switch OFF

50% N₁ minimum.

Right Generator RESET, THEN ON

Voltmeter L GEN (28V DC)

The R DC GEN, L GEN TIE OPEN, R GEN TIE OPEN extinguishes; loadmeter displays high load due to battery charging.

Battery CHARGE

NOTE: Airplanes Prior To FL-215 and FM-10:
The BATTERY CHARGE annunciator will illuminate approximately 6 seconds after the generator is on-line.

Charge until loadmeter reads approximately 50% or less.

Left Engine START

Start the left engine following the same procedure as for the right engine.

Voltmeter L GEN (28V DC)

Left Generator RESET, THEN ON

Right Generator RESET, THEN ON

NOTE: Hold the right generator switch in RESET and observe the left generator, maintaining sufficient voltage to hold the bus ties closed.

Propeller Levers FULL FORWARD

Propeller RPM 1050 (MIN)

PROP PITCH Annunciators ILLUMINATED

Engine Starting (Battery) Checklist COMPLETE

Engine Starting (GPU)

NOTE: Starting with environmental bleed air off will provide cooler engine starts.

See Limitations chapter for starter/generator limitations.

During engine start, crew duties should be defined and organized. The pilot monitors ITT, N_1 , and 10-second time limit for light off; the copilot is responsible for starter time limits and all other indications or abnormalities. He provides verbal confirmation of oil pressure, ignition, and fuel pressure. This allows the pilot to concentrate on the two most important starting parameters: ITT and N_1 . In addition, it prevents both pilots from looking at the same gauge at the same time and leaving other indicators unmonitored.

Expanded Normal Procedures

CAUTION: Never connect an external power source to the airplane unless a battery indicating a charge of at least 20 volts is in the airplane. If the battery voltage is less than 20 volts, the battery must be recharged, or replaced with a battery indicating at least 20 volts, before connecting external power.

GEN TIES (Nighttime) MAN CLOSE

NOTE: When an external power source is used, ascertain that it is capable of generating a minimum of 1,000 amps momentarily and 300 amps continuously. The battery should be ON to absorb transients present in some external power units.

Voltmeter EXT PWR (28V DC)

Voltmeter CTR (20V DC MIN)

External Power Switch ON

CAUTION: External power source output voltage – SET 28.0 - 28.4 volts.

Voltmeter CTR (28V DC MIN)

EXT PWR Annunciator ON, Steady

Engine Anti-ice ON

Propeller Area CLEAR

Left Engine START

Prop Area CLEAR

Ignition and Engine Start Switch IGN/ENG START

Observe N_1 rotation, IGNITION ON, FUEL PRES LO OFF, N_1 stabilized (12% minimum).

Condition Lever LOW IDLE

Observe fuel flow 100 PPH and oil pressure increasing.

ITT. MONITOR

CAUTION: If no ITT rise is observed within 10 seconds after moving the Condition lever to LOW IDLE, move the Condition lever to CUTOFF and release the Ignition and Engine Start Switch to OFF. Allow 5 minutes for fuel to drain and starter to cool, then follow Engine Clearing procedures.

ITT exceeding 820°C is abnormal; 820-1000°C is limited to 5 sec.

Oil Pressure CHECK

CAUTION: If ITT appears likely to exceed 1,000°C, move condition lever to FUEL CUTOFF and Ignition OFF. Leave engine start switches in the ON position. Continue monitoring the engine to reduce ITT below 400°C. Do not attempt another start until the cause of the hot start or hung start has been corrected.

NOTE: After aborting start attempt, allow 60 seconds delay for fuel draining, motor the engine for a minimum of 15 seconds, and allow the engine to stop completely before attempting another start.

Ignition and Engine Start Switch OFF

@ 50% N₁ minimum.

External Power Switch. OFF

GPU. DISCONNECT/REMOVED/LIGHT OFF

Left Generator RESET, THEN ON

Expanded Normal Procedures

GPU DISCONNECT/REMOVED/LIGHT OFF
Left Generator RESET, THEN ON
Voltmeter R GEN (28V DC)
 The R DC GEN, L GEN TIE OPEN, R GEN TIE OPEN extinguishes; loadmeter displays high load due to battery charging.
 Battery CHARGE (until loadmeter reads approximately 50% or less)
 (Nicad only)
Right Engine START

NOTE: Airplanes Prior To FL-215 and FM-10:
The BATTERY CHARGE annunciator will illuminate approximately 6 seconds after the generator is on-line.

Start the right engine following the same procedure as for the left engine.

Voltmeter R GEN (28V DC)
Right Generator RESET, THEN ON
Left Generator RESET, THEN ON

NOTE: Hold the left generator switch in RESET and observe the right generator, maintaining sufficient voltage to hold the bus ties closed.

Propeller Levers FULL FORWARD
Propeller RPM 1050 (MIN)
PROP PITCH Annunciators ILLUMINATED
Engine Starting (GPU) Checklist COMPLETE

NOTE: If, for any reason, a start is discontinued, allow the engine to come to a complete stop to permit gas generator fuel drain valve operation.

Hot Start or Hung Start

Condition Lever FUEL CUTOFF
Ignition and Engine Start STARTER ONLY
ITT below 400°C Ignition/Start Switch OFF

Do not attempt another start until the cause of the hot start or hung start has been corrected.

No Light Start (ITT Rise Within 10 Seconds)

Condition Lever FUEL CUTOFF
Ignition and Engine Start OFF (5 minutes)
Engine Clearing ACCOMPLISH

Engine Clearing

The following procedure is used to clear an engine any time it is deemed necessary to remove internally trapped fuel and vapor, or if there is evidence of a fire within the engine. Air passing through the engine serves to purge fuel, vapor, or fire from the combustion section, gas generator turbine, power turbines and exhaust system.

Propeller Lever FEATHER
Condition Lever FUEL CUTOFF
Power Lever IDLE
Ignition and Engine Start STARTER ONLY (30 sec)

CAUTION: Do not exceed the starter time limits.

Ignition and Engine Start OFF

Allow 5 minutes before attempting another start.

Engine Clearing Checklist COMPLETE

Before Taxi

- Electrical System CHECK
 Gen Tie Switch OPEN
 Observe L GEN TIE, R GEN TIE annunciators illuminate.
- Voltmeter CHECK
 Observe CTR bus at battery voltage.
- Gen Tie Switch NORM
 Observe CTR bus voltage normal.
- Bus Sense Switch TEST (momentary)
 Observe L GEN TIE, R GEN TIE, and BAT TIE annunciators illuminate.
- Voltmeter CHECK
 Observe CTR bus at zero voltage.
- Bus Sense Switch RESET
 Observe L GEN TIE, R GEN TIE, and BAT TIE annunciators extinguish.
- Voltmeter CHECK
 Observe CTR bus voltage normal.
- Bus Selector Switch TPL FED
- Master Panel/Cockpit Lights AS DESIRED
- Environmental System SET
- Inverters (2) ON/CHECK
 No. 1 and 2 AC BUS annunciators extinguished.
- Avionics Master Switch ON
- Standby Power ON

NOTE: Place the standby power switch in the ON position. Allow the AI-804 gyro to spool-up prior to uncaging.

FMS	VERIFY/ACCEPT
EFIS Power Switches	ON
Flaps	UP
Exterior Lights	AS REQUIRED
Flight and Engine Instruments	CHECK
Cabin Lights	AS DESIRED
Furnishing Switch	AS DESIRED
Annunciators	TEST/NORMAL
Flight Controls	FREE/CORRECT
Flight Instruments	NO FLAGS
Brakes	RELEASE/TEST

Before Takeoff (Run-Up)

Nosewheel	CENTERED
Parking Brake	SET
Autopilot/Yaw Damp	CHECK
Pitch Trim	TAKEOFF POSITION
ELEV Trim Switch	ON
Yaw Damp Button	ENGAGE
Note rudder pedals respond to yaw damper engagement.	
Rudder Boost Switch	YAW CONTROL TEST/RELEASE
Observe YD DISC flash momentarily on EFIS ADI, then extinguish.	
Rudder pedals released.	
Rudder Boost/Yaw Control Test Switch	RUDDER BOOST
Control Yoke	RELAX
Autopilot Button	ENGAGE
AP and YD illuminate steady on EFIS.	

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Electric Pitch Trim ACTUATE

Electric Pitch Trim switches should be tested in both directions with the autopilot engaged to verify the autopilot disconnects with all switch activations.

Repeat for both pilot and copilot.

Control Yoke CENTER

Autopilot Button ENGAGE

Allow green AP and YD annunciators to illuminate steady on EFIS ADI.

Control Yoke PUSH/PULL

Move the yoke in both the forward and aft directions to verify the autopilot attempts to trim-off the applied pressure.

Turn Knob L/R

Confirm that the control wheel responds appropriately to control from the detent position.

Turn Knob CENTER DETENT

HDG Control Knob PUSH SYNC

HDG Mode ENGAGE

HDG Control L/R

Observe Control Yoke follows heading commands.

Yoke CWS/SYNC button PUSH/RELEASE

Confirm roll response from previous step becomes inactive when button pressed.

Repeat previous four steps for both pilot and copilot.

GA Button PUSH

Observe EFIS command bars pitch to +7 degrees.
Autopilot disconnects but yaw damp remains engaged.

Autopilot Button ENGAGE

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Trim Tabs SET
Ice Protection CHECK

Engine Anti-Ice:

Engine Anti-Ice Actuators STANDBY

Engine Anti-Ice OFF

L ENG ANTI-ICE, R ENG ANTI-ICE annunciators
extinguish.

Engine Anti-Ice Actuators MAIN

Engine Anti-Ice ON

L ENG ANTI-ICE, R ENG ANTI-ICE annunciators
illuminate.

Engine Auto Ignition:

Power Levers IDLE

Auto-Ignition Switches ARM

L IGNITION, R IGNITION annunciators illuminate.

Power Levers ADVANCE above approx 17% torque

L IGNITION, R IGNITION annunciators extinguish.

Power Levers IDLE

L IGNITION, R IGNITION annunciators illuminate.

Auto-Ignition Switches OFF

L IGNITION, R IGNITION annunciators extinguish.

Windshield Anti-Ice:

Windshield Anti-Ice Switches HI

Observe loadmeter increase and magnetic compass
swing.

Windshield Anti-Ice Switches OFF, then NORMAL

Observe loadmeter increase and magnetic compass
swing.

Windshield Anti-Ice Switches OFF
Observe loadmeter decrease and magnetic compass swing.

Electrothermal Prop Deice:

Automatic Prop Deice Switch ON
Deice Ammeter 26-32 AMPS
Monitor for 90 seconds to confirm timer operation.

Manual Prop Deice HOLD in Manual Position
Observe slight loadmeter deflection.

Deice Ammeter 0 AMPS
Manual Prop Deice RELEASE

Deice Ammeter 26-32 AMPS
Automatic Prop Deice Switch OFF

Surface Deice:

Condition Levers HIGH IDLE (if required)

Pneumatic Pressure CHECK

Surface Deice Switch SINGLE CYCLE and release

Observe Pneumatic/Vacuum gauge fluctuations.
WING DEICE annunciator illumination followed by
TAIL DEICE annunciator illumination. 6 seconds for
WING DEICE, 4 seconds for TAIL DEICE.

Boots CHECK VISUALLY

Surface Deice Switch HOLD MANUAL

Observe Pneumatic/Vacuum gauge fluctuation. WING
DEICE and TAIL DEICE annunciators illuminate steady.

Boots CHECK VISUALLY

Surface Deice Switch RELEASE

Observe Pneumatic/Vacuum gauge fluctuation. WING
DEICE and TAIL DEICE annunciators extinguish.

Expanded Normal Procedures

- Boots CHECK visually for vacuum hold-down
- Condition Levers LOW IDLE
- Overspeed Gov/Rudder BoostCHECK
- Rudder Boost Switch RUDDER BOOST
- Prop Levers FULL FORWARD
- Prop Governor Test Switch. HOLD to GOV
- Power Lever (individually) INCREASE
- Each power lever should be advanced until propeller RPM has stabilized between 1520-1610 RPM. Continue to advance lever until proper rudder movement is evident.
- AP/Trim Disconnect Switch PRESS 1st Level
- Rudder Boost is interrupted.
- Rudder Boost Switch OFF/ON
- Rudder Boost is interrupted.
- Power Lever IDLE
- Repeat for opposite engine.
- Prop Governor Test Switch. RELEASE
- Low Pitch Stops/Primary GovernorsCHECK
- Prop Levers FULL FORWARD
- Low Pitch Stop SwitchHOLD to GND IDLE STOP
- L PROP PITCH, R PROP PITCH annunciators illuminated.
- Power Levers SET 1500 RPM
- Prop Levers CYCLE
- Levers are cycled to low, then back to high RPM. Observe proper RPM response.
- Low Pitch Stop SwitchRELEASE
- L PROP PITCH, R PROP PITCH annunciators remain extinguished.

Prop RPM 1150 to 1250 RPM
Autofeather CHECK

NOTE: Autofeather annunciators cycle on and off with each fluctuation of torque as the prop feathers.

Autofeather Switch HOLD to TEST
Power Levers SET 22% Torque
Power Lever (individually) IDLE
 Observe opposite AFX annunciator extinguished.
 Appropriate propeller begins feathering at approximately 10% torque and continues to cycle.
Power Lever SET 22% Torque
 Observe feathering sequence terminated and both AFX annunciators illuminated.
Power Levers IDLE
 Observe AFX annunciators simultaneously extinguishing and no associated prop feathering.
Autofeather Switch ARM
Pressurization CHECK
 Environmental Bleed Air Switch NORMAL
 Bleed Air Valves OPEN
 Pressurization Controller SET
 Set approximately 1,000 feet below field pressure altitude.
 Set rate knob to 12 o'clock.
Cabin Pressure Switch HOLD to TEST
Cabin Altimeter/VSI CHECK
 Observe cabin descent, cabin altitude decreasing, and differential increasing.

Expanded Normal Procedures

Cabin Pressure Switch RELEASE

Pressurization Controller SET to Takeoff

Set controller to the greater of 1,000 feet above planned cruise altitude (inner scale) or 500 feet above takeoff field pressure altitude (outer scale).

Environmental Bleed Air Switch AS REQUIRED

Pressurization Controller SET

CAUTION: Environmental bleed air must be in the LOW position at ambient temperatures above 10°C.

Environmental Bleed Air AS REQUIRED

Bleed Air Valves TEST

Bleed Air Valves OPEN

Left Bleed Air Valve PNEU/ENVIR OFF

Observe no change in Vacuum/Pneumatic gauges.

Right Bleed Air Valve PNEU/ENVIR OFF

Observe ZERO Vacuum/Pneumatic pressure. L BL AIR FAIL, R BL AIR FAIL annunciators illuminate.

Left Bleed Air Valve OPEN

Vacuum/Pneumatic gauges recover to normal positions.

Right Bleed Air Valve OPEN

Pneumatics and Vacuum Gauges NORMAL

Manual Prop Feathering CHECK

Autofeather Switch ARM

Prop Sync ON

Flaps AS REQUIRED

Friction Locks SET

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Fuel Quantity CHECK
Flight Instruments SET
Avionics/Radar/FMS SET/PROGRAMMED
ADC TEST

ADC Test:

ADC Test Switch PUSH

Observe air data instruments flag and revert to loss-of-data mode.

Altitude pointer slews to 250-foot mark.

VSI pointer slews to 6000-ft/min descent rate.

Airspeed indicator and M_{MO} pointers slew to zero.

ADC Test Switch RELEASE

Observe air data transmissions to the instruments restored.

Instrument flags pull from view.

VSI Test (Non TDI-920):

VSI Test Button PUSH

Observe the warning flag in view. Pointer slews to 6000-ft/min descent rate.

VSI Test Button RELEASE

Observe normal indications.

Airspeed Indicator Test:

Airspeed Indicator Test Button PUSH

Observe warning flag in view and both pointers slew to 160 knots for 1 second before slewing to zero.

Airspeed Indicator Test Button RELEASE

Ensure barber pole returns to 260 knots.

Altimeter Test:

Altimeter Test Button PUSH

Observe warning flag in view for approx ½ second.
Altitude pointer slews to 750-foot mark.

Altimeter Test Button RELEASE

Observe normal indications.

Baro Knob ADJUST/SET

Observe baroset digits responding appropriately.

Baro Knob PUSH/PULL/AS DESIRED

PUSH for barosettings in inches of mercury.
PULL for barosettings in millibars.

Altitude Alerter Test:

ALT ALERT Annunciator/Switch PUSH/HOLD

Observe warning flag in view.
ALT ALERT annunciator illuminates.
Remote ALT ALERT annunciators illuminate.

ALT ALERT Annunciator/Switch RELEASE

Observe warning flag out of view.
ALT ALERT annunciator extinguishes.
Remote ALT ALERT annunciators extinguish.

EFIS TEST

EFIS Test Button PUSH/HOLD (>4 seconds)

Observe pilot instruments Pitch UP and Roll RIGHT 10 degrees, Copilot instruments Pitch DOWN and Roll LEFT 10 degrees.
Observe red “TEST” on both EADIs and MFD.

After 4 seconds, pitch, roll, and heading increments are removed from view, and all active flags are brought into view.

Comparator Warning Lights PUSH to Cancel

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TCAS (CLT 92T AND TVI-920D) TEST

CTL 92 Test Button PUSH

Allow 10 seconds to complete.

Observe four TCAS test traffic targets displayed on the TVI-920D and MFD.

Note "TCAS SYSTEMS TEST OK" audio alert.

TVI-920 Test Button PUSH and HOLD

Hold for 10 seconds.

Observe display of part number, and list of TCAS-related systems that either pass or fail.

EGPWS TEST

Terrain Inhibit Switch ENSURE NOT ENGAGED

WXR Radar Display ON (or TEST)

Terrain Display ENSURE NOT SELECTED

EGPWS Test Button PUSH less than 2 seconds

Observe:

GPWS INOP, TERRAIN INOP,
WINDSHEAR INOP Annunciators ILLUMINATED

BELOW GLIDESLOPE (or
amber GPWS) Annunciator ILLUMINATED

"GLIDESLOPE" audio message is enunciated.

BELOW GLIDESLOPE (or
amber GPWS) Annunciator EXTINGUISHED

GLIDESLOPE CANCELED
Annunciator ILLUMINATED
(IF INSTALLED)

GLIDESLOPE CANCELED
Annunciator EXTINGUISHED
(IF INSTALLED)

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PULL UP (or red
GPWS) Annunciator ILLUMINATED

“PULL UP” audio message is enunciated.

PULL UP (or red
GPWS) Annunciator EXTINGUISHED

WINDSHEAR WARNING

Annunciator ILLUMINATED

Siren and “WINDSHEAR, WINDSHEAR, WINDSHEAR”
audio message is enunciated.

Pilot or Copilot WINDSHEAR

ALERT Annunciator ILLUMINATED

PULL UP (or red
GPWS) Annunciator ILLUMINATED

“TERRAIN, TERRAIN, PULL UP” audio message is
enunciated. Terrain display self-test pattern is displayed
for 12 seconds.

PULL UP (or red
GPWS) Annunciator EXTINGUISHED

GPWS INOP, TERRAIN INOP,
WINDSHEAR INOP Annunciators EXTINGUISHED

Before Takeoff (Final Items)

Bleed Air Valves	OPEN
Environmental Bleed Air	AS REQUIRED
Electric Heat	OFF
Aft Heat	AS DESIRED
Aft Blower	AS DESIRED
Generator Loads	CHECK
Battery Ammeter	CHECK (0-10A)
Exterior Lights	SET
Ice Protection	AS REQUIRED
Auto Ignition	ARM (If Required)
Autofeather	CHECK/ARM
Annunciators	CONSIDERED
Headings/Flight Directors	SET
Standby Gyro	UNCAGED/SET
Prop Levers	FULL FORWARD
Crew Briefing	COMPLETE
Transponder	ON
Brakes	RELEASED
Engine Anti-ice	OFF or AS REQUIRED

Takeoff

Brakes	HOLD
Power Levers	SET STATIC POWER
Brakes	RELEASE
V _R	PITCH 10 DEGREES
Landing Gear	UP

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Landing/Taxi Lights OFF
Yaw Damp ON
Airspeed. V_{35} (until clear of obstacles)
Flaps UP (125 kt minimum)

Rolling Takeoff

Power Levers. SET STATIC POWER (within 10 sec)
Autofeather (L+R) ILLUMINATED
 V_R PITCH 10 DEGREES
Landing Gear UP
Landing/Taxi Lights OFF
Yaw Damp ON
Airspeed. V_{35} (until clear of obstacles)
Flaps UP (125 kt minimum)

Climb

Yaw Damp VERIFY/ON
Attitudes. COMPARE
Climb Power SET
Props SET (1600, or AS DESIRED)
Engine Instruments CHECK
Ice Protection. AS REQUIRED
Windshield Heat. NORMAL
Bleed Air Valves. OPEN
Environmental Bleed Air AS REQUIRED
Pressurization CLIMB/DIFFERENTIAL
Outside Check CONFIRM
Exterior Lights AS REQUIRED

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10,000 Feet

Cabin Sign AS REQUIRED
Exterior Lights AS REQUIRED
Pressurization NORMAL
Oxygen Control CHECK

Transition (18,000)

Altimeters 29.92
Pressurization NORMAL

Cruise

Cruise Power SET
Autofeather OFF
Systems Check COMPLETE

NOTE: Engines, fuel consumption, electrical, pneumatic, environmental, pressurization, oxygen and anti-ice systems should be monitored.

Aft Blower AS REQUIRED
COMM/NAV Radios SET
Destination Weather CHECK
Approach Procedure CONSIDER
Crew Briefing CONSIDER
Landing Data CHECK

Descent/Transition

Pressurization SET

Pressurization Controller Setting for Landing	
Closest Altimeter Setting	Add to Airport Elevation
28.00	+2,400
28.10	+2,300
28.20	+2,200
28.30	+2,100
28.40	+2,000
28.50	+1,900
28.60	+1,800
28.70	+1,700
28.80	+1,600
28.90	+1,500
29.00	+1,400
29.10	+1,300
29.20	+1,200
29.30	+1,100
29.40	+1,000
29.50	+900
29.60	+800
29.70	+700
29.80	+600
29.90	+500
30.00	+400

Pressurization Controller Setting for Landing

Closest Altimeter Setting	Add to Airport Elevation
30.10	+300
30.20	+200
30.30	+100
30.40	0
30.50	-100
30.60	-200
30.70	-300
30.80	-400
30.90	-500

Fuel Balance CHECK
Autofeather ARM
Ice Protection AS REQUIRED
Window Defog AS REQUIRED
Windshield Defrost AS REQUIRED
Destination Weather RECHECK
Approach Procedures RECHECK/BRIEF
Cabin Sign CONSIDER
Exterior Lights AS REQUIRED
Altimeters SET

Approach

Surface Deice	AS REQUIRED
Autofeather	CHECK/ARM
Fuel Balance	CHECK
Pressurization	CHECK
Environmental Bleed Air	LOW
Cabin Sign	ON
Cabin Condition	SECURE
Exterior Lights	AS REQUIRED
Landing Data	REVIEW

Refer to the AFM section V, for Landing Data Distances.

Approach Briefing	COMPLETE
Altitude Alerter/Radar Altimeters	SET
Flaps	APPROACH

Before Landing

Landing Gear	DOWN (3 GREEN)
Approach Speeds	CONFIRM
Exterior Lights	AS REQUIRED
Radar	STBY/AS REQUIRED
Surface Deice	AS REQUIRED
Engine Anti-Ice	CONSIDER

Normal Landing (Final Items)

Landing Gear CONFIRM (3 GREEN)
Pressurization Differential CHECK ZERO
Flaps DOWN
Yaw Damp OFF
Power Levers IDLE
Prop Levers FULL FORWARD

After Touchdown

Power Levers LIFT GROUND FINE
Brakes AS REQUIRED

Maximum Reverse Landing

Condition Levers HIGH IDLE
Prop Levers FULL FORWARD
Landing Gear CONFIRM (3 GREEN)
Flaps DOWN
Engine Anti-Ice ON
Airspeed V_{REF}
Yaw Damp OFF

Landing Steep Approach

TAWS (If installed) ACTIVATE STEEP APPROACH
Prop Levers FULL FORWARD
Flaps FULL DOWN
Airspeed V_{REF}

Prior to Landing

Yaw Damp OFF
Power Levers IDLE

After Touchdown

Power Levers LIFT GROUND FINE

Brakes AS REQUIRED

Balked Landing/Missed Approach

Power Levers MAX ALLOWABLE

Propellers FULL FORWARD

Airspeed V_{REF}

NOTE: When clear of obstacles, establish normal climb.

Flaps (V_{REF} plus 10 kt) APPROACH

Landing Gear UP

Flaps (125 kt, min) UP

After Landing

Engine Anti-Ice CONFIRM/ON

Auto Ignition OFF

Exterior Lights AS REQUIRED

Ice Protection OFF

Brake Deice CYCLE

Flaps UP

Trim SET

Transponder STBY/OFF

Radar STBY/OFF

Bleed Air Valves ENVIR OFF

Pressurization Differential VERIFY ZERO

Shutdown/Securing

Parking Brake	SET
Electric Heat	OFF
Autofeather	OFF
Exterior Lights	AS REQUIRED
FMS	OFF
EFIS Power Switches	OFF
Oxygen Control Handles	OFF
Instrument Emergency Lights (Nighttime)	ON
Battery	CHARGED
Standby Gyro	CAGED

NOTE: DO NOT cage the gyro while the aircraft is in motion.

Avionics Master	OFF
Inverters	OFF
Aft Heat	OFF
Vent Blowers	AUTO/OFF
Cabin Temp Mode	OFF
ITT	STABILIZED
Power Levers	FLIGHT IDLE
Condition Levers	FUEL CUTOFF
Prop Levers	FEATHER
Pilot's Subpanel Switches	L/R OFF
Gang Bar	OFF (<15% N ₁)
Overhead Panel Light Switches	OFF

Expanded Normal Procedures

Parking BrakeAS REQUIRED
Instrument Emergency Lights (Nighttime) OFF
Baggage Compartment Lights OFF
Cabin Entry Lights OFF
Tiedowns/ChocksINSTALL
Restraints/CoversINSTALL

