

Preliminary Cockpit Preparation

Battery	OFF
Generator Switches.....	OFF
Lights.....	OFF
Conventional Engine Throttles.....	IDLE
Vertical Engine Throttles.....	IDLE
Engine Start Switches.....	OFF
Engine Start Cover	CLOSED
Fuel Switches	OFF
Parking Brake	SET

Conventional Engine Start

Battery	ON
Parking Brake	SET
Beacon Light.....	ON
Engine Start Cover	OPEN
ENG1 Master Switch	ON
ENG1 Ignition Switch	ON
ENG1 Starter Switch.....	ON
Monitor N2	ABOVE 18%
ENG1 Master Fuel Switch.....	ON
Once Combustion Achieved and EGT > 300 Degrees.....	MONITOR
ENG1 Starter Switch.....	OFF
Pressures and Temperatures	MONITOR
ENG2 Master Switch	ON
ENG2 Ignition Switch	ON
ENG3 Starter Switch.....	ON
Monitor N2	ABOVE 18%
ENG2 Master Fuel Switch.....	ON
Once Combustion Achieved and EGT > 300 Degrees.....	MONITOR
ENG2 Starter Switch.....	OFF
Pressures and Temperatures	MONITOR
Engine Start Cover	CLOSED

Vertical Engine Start

Ensure Conventional Engines Are Running	CHECK
Copilot Vertical Engine Control	ON
Copilot Green Indicator Light	ON
Vertical Engine Throttle Lever	START POSITION
Wait Until Engines Start Spooling Up	MONITOR ENGINES 3-10 RPM GAUGES
Left and Right Vertical Engine Fuel Pumps	ON
Allow Engines To Spool Up.....	MONITOR ENGINES 3-10 RPM GAUGES
Pressures and Temperatures	MONITOR
Conventional Engine Throttles	IDLE
Enable Required Copilot Assist Mode	AS REQD

After Engine Start

Generators 1,2,3 and 4	ON
ENG1 and ENG2 Starter Switches	OFF
Engine Start Cover.....	CLOSED
Beacons	ON

Taxi and Line Up

Lights	AS REQUIRED
Parking Brake	RELEASE
Conventional Thrust Levers.....	AS REQD
Toe Brakes.....	PRESS
Brakes.....	CHECK
Tiller or Rudder Pedals	AS REQD
Taxi	SLOWLY
Use Rudder to Steer	SLOWLY
Flight Controls	CHECK
ATC Clearance	CONFIRM
TCAS	TA/RA
Nav Lights.....	ON
Landing Lights	ON

Conventional Take Off

ATC Clearance CONFIRM
Flaps AS REQD
Conventional Throttle Levers..... FULL FORWARD
Rotate 160-165 KNTS
Landing Gear ABOVE 165 KNTS AND POSITIVE CLIMB, UP
Flaps UP

STOVL Take Off

ATC Clearance CONFIRM
Conventional Engines RUNNING
Vertical Engines RUNNING
Copilot Vertical Engine Control..... CHECK ON
Copilot Green Indicator Light..... CHECK ON
Copilot Assist Mode OFF / BOUNDARY or STOVL ASSIST ON
Parking Brake SET
Conventional Engine Throttles INCREASE TO 80%
Parking Brake RELEASE
Above 50 Knts Vertical Engine Throttles INCREASE SLOWLY
Achieve Vertical Thrust MONITOR
Control Attitude WITH STICK AND RUDDER
Landing Gear ABOVE 165 KNTS, UP
Conventional Engine Throttles INCREASE TO 100% WITHIN EGT LIMITS
Copilot Assistance AUTO-DISCONNECT WITHIN CONDITIONS

Hover Take Off

ATC Clearance CONFIRM
Conventional Engines RUNNING
Vertical Engines RUNNING
Copilot Vertical Engine Control..... CHECK ON
Copilot Green Indicator Light..... CHECK ON
Copilot Assist Mode HOVER ASSIST ON AS REQD
Parking Brake SET
Conventional Engine Throttles IDLE (CO-PILOT WILL CONTROL)
Vertical Lift Engine Throttles INCREASE

Achieve Vertical Thrust MONITOR
Control Attitude WITH STICK AND RUDDER
Landing Gear POSITIVE CLIMB, UP
Conventional Engine Throttles INCREASE
Copilot Assistance AUTO-DISCONNECT WITHIN CONDITIONS

Climb

Gear Lever UP
Flaps Lever..... UP
Landing Lights..... OFF
Trim AS REQUIRED

Cruise

Throttle Levers AS REQD
Maintain Cruise Speed 240 KNTS

Conventional Landing

Landing Lights..... ON
Landing Gear DOWN
Flaps AS REQD
Maintain Speed 160 KNTS
Throttle IDLE
Touchdown..... MONITOR
Brakes PUSH GENTLY
Steering USE RUDDER

Vertical Landing

Landing Lights..... ON
Conventional Engines..... RUNNING
Before 5 Mile Final CHECK
Copilot Vertical Landing Assist ON
At 5 Mile Marker CHECK
Speed..... BELOW 215 KNTS / ABOVE 180 KNTS

Landing Gear DOWN
 Flaps CONTROLLED BY COPILOT
 Copilot Vertical Engine Control ON
 Copilot Green Indicator Light CHECK ON
 Descent Rate MANAGE TO 3 MILE MARKER
 At 3 Mile Marker CHECK
 Speed ACHIEVE 150-160 KNTS
 Conventional Engine Throttle IDLE
 Vertical Lift Command Throttle USE TO MAINTAIN DESCENT RATE
 VSI MONITOR DESCENT RATE
 At 1 Mile Marker CHECK
 Altitude ACHIEVE 400FT AGL
 Vertical Lift Command Throttle USE TO MAINTAIN DESCENT RATE
 Back Stick USE TO SLOW DOWN FORWARD SPEED
 Rudder USE FOR YAW TURNS
 Stick Roll (Small Amounts) USE FOR ROLL TURNS
 At Touchdown CHECK
 Vertical Lift Command Throttle IDLE
 Copilot Vertical Engine Control OFF
 Copilot Vertical Landing Assist OFF

After Landing and Taxi In

Landing Lights OFF
 Nav Lights OFF
 Strobe Light OFF
 Flaps 0 DEGREES
 Throttles IDLE

SVOTL Engine Shutdown

Vertical Engine Throttles IDLE
 Left and Right vertical engine fuel pumps OFF
 Monitor Pressures and Temperatures CHECK

Conventional Engine Shutdown

ENG2 Master Fuel Switch OFF
 Engine Start Cover OPEN
 ENG2 Ignition Switch OFF
 ENG2 Master Switch OFF
 Monitor Pressures and Temperatures CHECK
 ENG1 Master Fuel Switch OFF
 ENG1 Ignition Switch OFF
 ENG1 Master Switch OFF
 Monitor Pressures and Temperatures CHECK
 Engine Start Cover CLOSED
 Beacon OFF

Parking

Parking Brake SET
 Fuel Switches OFF
 Engine Start Switches OFF
 Engine Start Cover CLOSED
 Throttle Levers ALL IDLE
 Lights ALL OFF
 Generator Switches OFF
 Battery OFF