PRE-FLIGHT INSPECTION

Fuel Quantity in Tanks	**CHECK**
Oil	**CHECK > 6pts**
Magnetos	OFF
Avionics Bus 1 and 2	OFF
Master Switch ALT and BAT	ON
Flaps	DOWN
PFD Tacho & VDO	NOTE
Fuel Quantity Remaining	SET Quantity
Low Fuel	Annunciator NOT ON
Low Volts	Annunciator ON
Oil Pressure & Low Vacuum	Annunciators ON
Avionics BUS 1	ON, verify forward fan, OFF
Avionics BUS 2	ON, verify rear fan, OFF
Pitot Heat & Lights	TEST
Master Switch ALT and BAT	OFF
Fuel Selector	ON BOTH
Fuel Shutoff	IN

Conduct External Pre-flight Inspection

PRE-START

Passenger Brief	COMPLETE
Seats, Seatbelts	ADJUSTED & SECURE
Controls	FULL & FREE
Circuit Breakers	IN
Switches	OFF
Avionics BUS 1 & 2	OFF
Standby Battery Switch	TEST (10 sec), ARM
PFD, Engine Indicators	No Red X's
Essential BUS E	Min 24 Volts
Main BUS M	Max 1.5 Volts
Standby BATT S	Discharging (Negative Amps)
STBY BATT	Annunciator ON
Master Switch ALT and BAT	ON
Brakes	ON

COLD START

Mixture	CUT-OFF
Throttle	5mm
Fuel Pump	ON
Mixture	Move to FULL RICH
	check stable fuel flow established (3-5 sec)
	CUT-OFF
Fuel Pump	OFF

HOT START

Throttle	5mm
Propeller	CLEAR
Starter	ENGAGE
Mixture	Advance to RICH as engine starts
Throttle	1000 RPM

AFTER START

Fuel Start Time	NOTE
Flaps	UP
Beacon & Nav Lights	ON
Oil Pressure	GREEN within 30-60 seconds
Amps Main and Standby	Charging (Positive)
Low Volts	Annunciator NOT ON
Avionics Switch BUS 1 & BUS 2	ON
Database	**Current**

TAXI CHECK

ATIS/Wind/QNH	CHECK
Clearance/Taxi Call	CNTR, GND CTL, CTAF
PFD & Standby Altimeter	**QNH SET**
Transponder	**CODE SET (2000 Class G)**
Mixture	Lean for Taxi
Taxi Lights	ON if required
Parking Brake	RELEASED
Brakes	TEST
Instruments	CHECK

ENGINE RUN-UP

Brakes	ON
Throttle	1000 RPM
PFD Flight Instruments	No Red X's
Auto-Pilot & FD	Operation / Disconnect TEST
Heading & Altitude	SET
GPS Flight Plan	Entered & Activated
Radios & Navaids	TUNED
CDI Softkey	Select GPS Nav Source
Bearing Indicator	SET to GPS
Electric Trim	Operation TEST, SET for T/O
Controls	FULL & FREE
Fuel Shutoff	IN
Fuel	Sufficient, BOTH
Engine Oil Temps and Pressures	GREEN
Mixture	**FULL RICH**
Throttle	1800 RPM
Magnetos	CHECK LEFT & RIGHT
Engine Indicators	No Red X's
Engine Oil Temps and Pressures	GREEN
Suction	GREEN
Amps	Charging
Annunciators	CHECK NONE
Throttle	CHECK IDLE then set 1000 RPM
Flaps	SET for T/O
Circuit Breakers	IN

PRE-TAKEOFF & ENTERING RUNWAY

Departure Brief:

SID, Emerg, Altitude, Windsock

Clearance/Radio Call	TWR or CTAF
Strobes, Pitot Heat	ON
Hatches and Harnesses	SECURE

AFTER TAKEOFF (300ft)

Flaps	UP
Oil Temperature & Pressure	GREEN
Landing & Taxi Lights	OFF
Transponder	**Verify ALT, Correct CODE**

CRUISE

Compass	Check Heading
Logs	ATD, ETA
Engine	T's & P's, 2400 RPM, Lean EGT 1530°F
Altitude	Terrain, Assigned, Hemispherical
Radios	Freq, Calls, Transponder, Navaids
Orientation	Reporting Points, Time
Fuel	Check, Log
Forced Landing	Ground Elevation, Wind Direction
SARWATCH	Report Position

AFTER LANDING

Flaps	UP
Lights	OFF as Required
Mixture	Lean for Taxi
Transponder	Verify GND
SARWATCH	**Report Arrival**

SHUTDOWN

Throttle	1000 RPM
Magnetos	Verify not live LEFT & RIGHT
Switches	OFF
Avionics BUS 1 & BUS 2	OFF
Throttle	CLOSED
Mixture	CUT-OFF
Magnetos	OFF
Master Switch ALT and BATT	OFF
Fuel Selector	LEFT or RIGHT
PFD Tacho Reading	NOTE
Standby Battery Switch	OFF
Control Locks	IN
VDO Reading	NOTE
Aircraft	Pitot Cover, Tied Down, Cover

RNAV Approach

tracking to Initial Approach Fix (IAF) / Hold Point:

T.O.D	Calculate & Plan
Weather	Obtain, Select Approach, **QNH**
Aids	Load Approach, Set Minimum, RAIM
Brief	Approach Plate, Hold Entry, Frequencies

approaching IAF / Hold Point

Speed	100kts (2200RPM, Flaps 0)
OBS MODE	Selected
HDG	Set for hold entry

at IAF / HOLD Point (Holding)

HDG Mode	Activated
CRS	Set Inbound Track
Time, **T**rack, **T**urn, **I**nstr, **A**lt, **T**alk	
On Outbound Leg	B.U.M.F.I.S.H

approaching IAF (Start Approach)

OBS Mode	Off
APR Mode	Selected
Runway Lights	On

at IAF (Initial Approach Fix)

CTAF Call	15nm, Alt, RWY, ETA
Flaps	10 (Speed Check < 110kts)
Speed	90kts (2300RPM)
Altitude	Set to MDA

at IF (Intermediate Fix)

CTAF Call	10nm, Alt
Descend	Ready to start
Speed	90kts (2000 RPM Descending)

at FAF (Final Approach Fix)

CTAF Call	5nm, Alt
Speed	80kts (1800RPM Descending)
Naviads	LNAV, RAIM OK
Altimeter	Set, Cross Check
Gear	Down
Approaching Minimums	ALT Mode, Power

Land Straight

CTAF Call	Short Final for RWY XX
Flaps	20, 30 Short Final

Land Circle

CTAF Call	Circling for RWY XX
Speed	100kts (2200RPM, Flaps 10)

Missed

Power	Full
Climb & Turn	7.5deg to Missed Altitude
SUSP Mode	Deactivate
Flaps	Retract in stages
CTAF	Missed Approach, Alt, Heading