

Before Start

Tie down release	Chains OFF
Landing/Taxi Light	Working
NAV Lights	Working
Strobe/Beacon	Working
Flashlight	Available
Pitot Heat	Chk heating
Logbook	Chk Tach time
Seat/Shoulder Belts	ON
Brief Passengers	Belts/Elect
Fuel Shut-off valve Handle	BOTH
Parking Brake	Release
Brakes	Check/SET
Avionics Master Switch	OFF
Transponder	STANDBY
Cabin Doors	Latched down
Elevator Trim Tab	Set Takeoff
Circuit Breakers	All IN
Timer	Reset

Engine Start

Carb Heat	COLD
Mixture	Full Rich
Primer	Locked
Throttle	1-2 strokes
Master Switch	ON
Beacon/strobe lights	ON
Propeller Area	CLEAR
Ignition Switch	Start
Oil Pressure	Check/green
Master Avionics Switch	ON

Pre-Taxi

Altimeter	Set
Altimeter Error	Check
Marker beacon Lights	Test
Marker beacon audio	Set volume
Alternate Static Source	Check
NAV Radios	Set
Com Radios	Set
GPS	Set
Heading Gyro	Initial Set
Clearance request	Requested
Comm Radio	Ground

Taxi Check

Interior/Dome Light	Check
Compass	Check
VSI	Check error
Attitude Indicator	Stable/Set
Turn Coordinator	Check
Transponder	Set ATC or 1200

Runup

Throttle	1700RPM
1. Engine Instruments	Check/green
2. Suction Gauge	4.6 to 5.4
3. Magnetos	<125rpm <50diff
4. Carb Heat	Check
Throttle	IDLE
Friction lock	Set
Ammeter	Check
Heading Gyro	Final set and check
Attitude Indicator	Check - Stable
Flaps	Check UP / 0%
Flight controls	Check
Transponder	ON to ALT
Comm Radio	Tower
Time OFF	Note

At Final Approach Fix

Heading Gyro	Set to compass
Passenger Briefing	Belts, etc
Landing Light (in clear)	ON for safety
Carb Heat	ON
GUMP	Complete

ShutDown, Parking and Securing

Transponder	Stdb, 1200
Avionics Master Switch	Off
Lights/Beacon/Strobe	Off
Mixture	Idle/Cutoff
Ignition/Master Switch	Off
Logbook	Enter Time

Slow Cruise

80K (no flaps)	2100
80K (10 flaps)	2200

500 ft/Min Descent

80K (no flaps)	1600
80K (10 flaps)	1700

Fuel 10 gph
Oil 8 max

Empty/Useful	1473/1077
Gross Weight	2550 lbs

Stall- 0 flaps	50K
Stall - 30 flaps	43K
Rotate	53K
V _X (best angle)	59K
V _Y (best rate)	70K
Land - 0 flaps	60-70K
Land w/flaps	60K
V _{NE}	160K
V _A (manuv)	97K
V _{FE} 10 flaps	110K
V _{FE} 30 flaps	85K

Usable Fuel Total 40g

N733NB - C172/180