

INITIAL

Weather & Den. Alt.
Weight & Balance
Performance Req.
Flight Plan - File
Papers - A.R.O.W.
Mags - Off
Mixtures - Full Lean
Control Lock
Cowl Flaps - Open
Gear Lever - Down
BATT - On
Gear Light - Green
Flaps - Down
Pitot Heat - Test
Stall Vanes - Test
Lights - Int. / Ext.
Fuel Gauges - True
BATT - Off

EXTERIOR SUMMARY
After Geographical Check

Fuel Quantity
Fuel Quality
Caps / Drains / Vents
Engines / Oil / Belt
Props / Air Intakes
Exhaust Systems
Cowl Flaps
Surfaces & Controls
Pitot & Static Ports
Deice Equipment
Gear / Tires / Brakes
ELT - Armed
Antennas
Baggage Doors
Ties/Chocks/Towbar
Final Walk Around

INTERIOR

Passenger Brief
Hobbs / Tach Time
Fuel Selector - Test
Fuel - On / Mains
Oxygen
Alternate Static
Eng Gear Crank-Free
Brakes - Test

START

Seat Track/Back-Lock
Circuit Breakers
Rudder Pedals-Set
Avionics - Off
Autopilot - Off
AC- Off
Cowl Flaps - Open
Beacon - On
Brakes - Set

#1 Engine Start

Mixture-Rich
Prop - High RPM
Throttle - Slight
Prop - Clear
BATT - On
Fuel Pump-Hi/Off
Mags - Start
Oil Pressure
ALT - On

#2 Repeat Engine Start

Mixture - As Req.
Lights - As Req.

PRE-TAXI / TAXI

Seat Belts / Harness
Flaps - Up
Heat/Vent/Defrost
Avionics - On / Set
ATIS / AWOS
Altimeter - Set
XPDR - Alt + Sqwk
ADS-B - On
Radio - Test
Deice - Electric Test
Taxi Light - As Req.
Brakes-Release/Test
Xfeed-Test/Fuel-On
Attitude Indic.-Test
Turn Coord. - Test
H.I./Compass - Test

RUN-UP

Brakes - Set
Elec. Trim/Autopilot
Trim-Takeoff
Flight Controls
Instruments
Mixture - Best Power

2200 RPM
Props - Cycle
1700 RPM
Mags (R&L) - Test
1500 RPM
Feather - Test
Gyro Pressure
Amps / Volts
Oil Pressure
Oil Temperature
Alternators
Idle - Check Closed
Friction Lock

PRE-TAKEOFF

Flaps - 0°
Props - High RPM
Mixture - Best Power
Fuel Pumps - Off
>90°F Pumps - Low
AC - Off
H.I. To Compass
XPDR - Alt + Sqwk
Doors / Windows
Pitot Heat - As Req.
Deice Equip. - As Req.
Landing Light - On
Strobes-On
Time - Note
Brakes - Release

Abort Plan - Ready!

TAKEOFF

Full Throttle
2625 RPM (Max)
Oil Pressure
Lift-Off * 84 (97)
Vy - 107 (123)
Gear - Up

CLIMB

122 (140)
Throttle - 25" MP
Prop - 2500 RPM
Mixture - As Req.
Fuel Pumps - As Req.
Prop Sync - On
Yaw Damper-On
Cowl Flaps - Open
Instruments
Taxi / Land Light - Off
Flight Plan - Open

CRUISE

Throttle
Props
Mixture
Cowl Flaps
Instruments
H.I. To Compass
Oxygen
Fuel - Proper Tanks

DESCENT

Power - As Req.
Mixture - Richen
Fuel - On / Mains
Cowl Flaps - Close
ATIS / AWOS
Altimeter - Set
Oxygen
Defroster
Instruments
H.I. To Compass

PRE-LANDING

Landing Light - On
Autopilot - Off
AC - Off
Yaw Damper - Off
Prop Sync - Off
Gas... Mains/Pumps (As Req.)
Undercarriage....Down
Mixture....Best Power
Props.....High RPM
Flaps.....As Req.
Seatbelts...& Harness

LANDING

Gear - Down
Flaps - 30° Or As Req.
Speed * 90 (104)

GO AROUND
Power - Full
90 KIAS (104 MPH)
Positive Rate Climb
Flaps - Up
Gear - Up
Cowl Flaps - Open

AFTER LANDING

Flaps - Up
Fuel Pumps - As Req.
Cowl Flaps - Open
Landing Light - Off
Strobes - Off
Taxi Light - As Req.
Deice Equip. - Off
Pitot Heat - Off
Heater - Off
Mixture - As Req.
Trim - Takeoff
XPDR - Alt + Sqwk

SECURING

ELT - Verify Silent
Avionics - Off
AC - Off
Fuel Pumps - Off
Mixture - Full Lean
Mags - Off
BATT / ALT - Off
Lights - Off
Cowl Flaps - Closed
Hobbs / Tach Time
Control Lock
Chocks
Tie Downs
Pitot Cover
Baggage Doors
Cabin Doors

Close Flight Plan

* Adjust Speed
As Needed For
Conditions

Vr • Lift-Off Speed -	84 (97)	Vs0 • Stall with flaps -	69 (79)	Va • Max Abrupt (4000 lbs) -	139 (160)	Vle / Vlo (1) Max Gear -	143 (165)
Vx • Best Angle Climb -	84 (97)	Vs • Stall w/o flaps -	78 (90)	Va • Max Abrupt (Full Gross) -	157 (181)	Vle / Vlo (2) Max Gear -	153 (176)
Vxse • Best Angle 1 Eng. -	91 (105)	Vmca • Min. Ctrl. 1 Eng. -	78 (90)	Vno • Max Structural Cruise -	183 (211)	Vfe • (3) Full Flaps -	113 (130)
Vy • Best Rate Climb -	107 (123)	Vsse • 1 Eng. Intentional -	84 (97)	Vne • Never Exceed -	224 (258)	Vfe • (4) Full Flaps -	122 (140)
Vyse • Best Rate 1 Eng. -	100 (115)	Best Glide (4000 lbs) -	106 (122)	Best Glide (Full Gross) -	120 (138)	X Wind • Max Demo'd	22 (25)

	KNOTS (MPH)	FLAPS °	- NOTES - TC-1019
DEPARTURE			
Lift-Off *	84 (97)	0	(1) TC-371, TC-502 thru TC-1156
Best Angle Climb	84 (97)	0	(2) TC-1157 thru TC-2002
Best Rate Climb	107 (123)	0	(3) TC-371, TC-502 thru TC-954
CRUISE (TAS-10,000')			(4) TC-955 thru TC-2002 & Prior Serials w/ Kit 55-4014
Economy	162 (186)	0	Takeoff and Land on Main Fuel Tanks Only
Normal	176 (202)	0	W/ No Less Than 13 Gallons in Each Main Tank
Maximum	184 (212)	0	
ARRIVAL			
Approach *	110 (127)	Approach	20.0" Hg - 2100 RPM - 18.8 GPH
Short Final *	90 (104)	Full-Down	20.2" Hg - 2300 RPM - 21.8 GPH
			20.1" Hg - 2450 RPM - 23.8 GPH
			17" MP - (Initially) High RPM

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Specs Are Approximate Because Of Environment & Plane Model / Year Variables. Specs Are In: LBS, KIAS, Sea Level, Standard Day, Normal Category, Max. Gross Wt., No Wind, "Best Power", New Engine. () = MPH.

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