BEFORE STARTING				
Preflight	COMPLETE			
Passenger Briefing	COMPLETE			
Seat Belts and Shoulder Harnesses	FASTENED and ADJUSTED			
Fuel Quantity and Quality	CHECKED			
Parking Brake	SET			
Avionics Master Switch	OFF			
Emergency Static Air Selector	EMERGENCY to drain, then NORMAL			
Landing Gear Handle	DOWN			
Cowl Flaps	OPEN			
Fuel Selectors	ON			
All Electrical Switches	OFF			
Circuit Breakers	CHECK			
Emergency Landing Gear Handcrank	STOWED			

STARTING ENGINES					
Battery and Alternator Switches	ON (if external power used, OFF)				
Fuel Quantity Indicators	CHECK				
Landing Gear Position Lights	ILLUMINATED				
Engine Start Procedure (if using external p	ower, start right engine first)				
Mixture	FULL RICH				
Propeller Control	HIGH RPM				
Throttle	FULL OPEN				
Fuel Boost Pump Switch	HI until flow peaks, then OFF				
Throttle	CLOSE, then open ½ INCH				
Propeller Area	CLEAR				
Magneto/Start Switch	START, release when engine fires				
Throttle	1000 RPM				
Oil Pressure	10 PSI within 30 seconds				
External Power	DISCONNECT				
Alternator Switch	ON				
Loadmeter	CHECK normal charge (< 20 AMPS)				
START annunciator	EXTINGUISHED				
Start other engine using above procedure					

BEFORE TAXIING				
Engine Warm-Up	1200 RPM or less			
,	Until oil temp > 24 degrees C			
Mixtures	LEAN aggressively			
Lights	ON AS REQUIRED			
Avionics Master Switch	ON			
Avionics	SET			
ATIS / Weather	RECEIVE			
Flight Instruments	CHECK and SET			
Autopilot	TEST			
Clearance	RECEIVE			
Transponder	STANDBY, CODE SET			

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TAXIING				
Brakes	CHECK			
Steering	CHECK			
Gyro Instruments	CHECK DURING TURNS			

BEFORE TAKEOFF					
Brakes	SET				
Cabin Doors and Windows	CLOSED and LATCHED				
Seat Belts and Shoulder Harnesses	FASTENED and ADJUSTED				
Fuel Boost Pumps	OFF, or LOW per ambient temperature				
Fuel Indicators	CHECK				
Throttles	2200 RPM				
Propellers	EXERCISE (300 RPM MAX)				
	Do not move levers past feather detent				
Throttles	1700 RPM				
Magnetos	CHECK				
All Instruments	CHECK				
Throttles	1500 RPM				
Propellers	CHECK FEATHER (300 RPM MAX)				
Throttles	CHECK IDLE then 1000 RPM				
Electric Trim	CHECK OPERATION				
Trim	AS REQUIRED				
Flaps	SET FOR TAKEOFF				
Flight Controls	FREE and CORRECT				
Doors and Windows	LOCKED				
Parking Brake	OFF				

RECOMMENDED AIRSPEEDS (KIAS)	
Vr	85
(Rotation Speed)	
Vmca	84
Minimum Control Speed	
V50	100
(50 Ft Speed)	
Vx	92
Two Engine Best Angle of Climb	
Vy	105
Two Engine Best Rate of Climb	
VxSE	100
One Engine Inoperative Best Angle of Climb	
VySE	101
One Engine Inoperative Best Rate of Climb	
Vcc	136
Cruise Climb	
VIo / VIe	152
Maximum Landing Gear Operating / Extended	
Va	156
Turbulent Air Penetration Speed	
Vref	95
Landing Reference Approach Speed (Flaps 30 degrees, 5400 LBS)	
Vsse	88
Minimum Intentional Engine Failure Speed	
Balked Landing Climb	95

TAKEOFF				
Power	SET TAKEOFF POWER			
	(Full Throttle, 2700 RPM)			
Airspeed	ACCELERATE TO AND MAINTAIN			
	RECOMMENDED AIRSPEEDS			
	(See chart below)			
Landing Gear	RETRACT			
-	(when positive ROC established and			
	insufficient landing runway remains)			
Airspeed	RECOMMENDED CLIMB SPEED			

CRUISE CLIMB				
Mixture	FULL RICH with AC fuel pumps,			
	otherwise lean as required to Cruise Climb			
	Fuel Flow Schedule			
Cowl Flaps	AS REQUIRED			
Power	FULL THROTTLE			
Propellers	2500 RPM			
Engine Temperatures	MONITOR			
Fuel Boost Pumps	OFF, or LOW per ambient temperature			

CRUISE CLIMB FUEL FLOW SCHEDULE – GPH vs. Altitude					
MSL Altitude	MSL Altitude				
SL	24.6 - 26.3	25.5			
2000	23.2 - 24.2	23.7			
4000	21.8 - 23.4	22.6			
6000	20.3 - 22.3	21.3			
8000	18.8 - 21.2	20.0			
10000	17.5 - 20.0	18.8			
12000	16.3 - 19.0	17.7			
14000	14.8 - 18.0	16.4			
16000	13.4 - 17.0	15.2			
17000	12.7 - 16.5	14.6			

CRUISE				
Cowl Flaps	CLOSED			
Power	SET			
Fuel Boost Pumps	OFF, or LOW per ambient temperature			
Mixtures	SET USING EGT			
	CRUISE RICH – 20 degrees ROP			
	CRUISE LEAN – 20 degrees LOP			
Engine Temperatures	MONITOR			

CRUISE POWER SETTINGS (20 Degrees Rich of Peak EGT)								
Recommended Cruise Power 25 IN. HG or Full Throttle / 2500 RPM								
	Press Alt IOAT		Man	Fuel Flow (Per		Airspeed		
			Press	Engine)				
	Feet	С	F	IN. HG	PPH	GPH	KIAS	KTAS
	SL	-2	29	25	101	16.8	194	187
F	2000	-6	22	25	105	17.5	195	193
36	4000	-9	15	25	109	18.2	196	199
Ä	6000	-13	8	24	105	17.5	191	200
C (ISA -36	8000	-17	1	22	98	16.3	184	198
S	10000	-21	-6	21	92	15.3	177	196
-20	12000	-25	-14	19	86	14.3	169	194
SA	14000	-29	-21	18	80	13.3	162	191
9	16000	-33	-28	16	74	12.3	154	187
	SL	18	65	25	98	16.3	189	188
	2000	15	58	25	101	16.8	190	195
S. S.	4000	11	51	25	105	17.5	191	201
	6000	7	44	24	102	17.0	186	202
Day (ISA)	8000	3	37	22	95	15.8	179	200
þ	10000	-1	30	21	89	14.8	171	198
dar	12000	-5	23	19	83	13.8	162	195
Standard	14000	-9	15	18	77	12.8	156	192
ß	16000	-13	8	16	72	12.0	148	188
	SL	38	101	25	95	15.8	184	190
) F)	2000	35	94	25	98	16.3	185	196
+36	4000	31	88	25	101	16.8	185	202
Ą	6000	27	81	24	98	16.3	181	203
C (ISA +36	8000	23	73	22	92	15.3	183	201
O	10000	19	66	21	896	14.3	166	199
+20	12000	15	59	19	80	13.3	159	196
ISA +	14000	11	51	18	75	12.5	151	193
<u>S</u>	16000	7	44	16	70	11.7	143	188

Notes:

- Full-Throttle Manifold Values (8000 FT and above) are approximate.
 Fuel flows are to be used for flight planning only and will vary from airplane to airplane. Lean using the EGT.

DESCENT	
Cowl Flaps	CLOSED
Crossfeed	OFF
Flaps	AS REQUIRED
Mixtures	FULL RICH (AC Pumps) or
	ENRICHEN (Manual Lean)
Power	AS REQUIRED
	Avoid IDLE settings and do not allow CHT
	to drop below 149 degrees C for longer
	than 5 minutes
Boost Pumps	OFF, or LOW per ambient temperature
Altimeter	SET

BEFORE LANDING		
Seat Backs	POSITION for landing	
Seat Belts and Shoulder Harnesses	LOCKED and ADJUSTED	
Cowl Flaps	AS REQUIRED	
Flaps	APPROACH below 152 KIAS	
Landing Gear	DOWN below 152 KIAS	
Boost Pumps	OFF, or LOW per ambient temperature	
Mixture Controls	FULL RICH	
Propeller Controls	HIGH RPM	

BALKED LANDING		
Mixtures	FULL RICH	
Propellers	HIGH RPM	
Throttles	FULL FORWARD	
Airspeed	95 KIAS	
Flaps	UP (0 degrees)	
Landing Gear	UP	
Cowl Flaps	OPEN AS REQUIRED	

AFTER LANDING		
Cowl Flaps	OPEN	
Trim Tabs	ZERO	
Flaps	UP	
Mixtures	LEAN aggressively	
Transponder	STANDBY	
Lights	AS REQUIRED	
Fuel Boost Pumps	OFF or LOW, AS REQUIRED	
De-Icing / Anti-Icing Systems	OFF or AS REQUIRED	

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SHUTDOWN		
Parking Brake	SET	
Avionics Master Switch	OFF	
Lights (Except Beacon)	OFF	
Mixture Controls	IDLE-CUT-OFF	
Magneto / Starter Switches	OFF after engines stop	
Battery and Alternator Switches	OFF	
Controls	LOCKED	
Covers, Plugs, Chocks	INSTALL	