

PREFLIGHT INSPECTION

1 Fuel Tank Sump	DRAIN
2 A/C Documents	ACCESSIBLE
3 Checklists	ACCESSIBLE
4 Parking Brake	SET
5 Ignition Key	REMOVE
6 Foreign Objects	REMOVE
7 All CB's	IN PRESSED
Battery Master	OFF
Coolant Light	ON
Fuel Quantity	CHECK
Instrument Lights	OPERATIONAL
Flaps Indicator	OPERATIONAL
Battery Master	OFF
Trottle	IDLE
15 Prop High RPM	FULL FWD
16 Carburetor Heat	OFF
17 ELT	ARM/AUTO
18 Main Wing Bolts	SECURED
19 Baggage Stowed	SECURE
20 Canopy Clean	NO DAMAGE

1. Left Main Gear

21 Wheel Fairing/Strut	VIS INSP
22 Tire Press/Slip Mkr	CHECK
23 Tire/Wheel/Brake	VIS INSP
24 Chocks	REMOVE

2. Left Wing

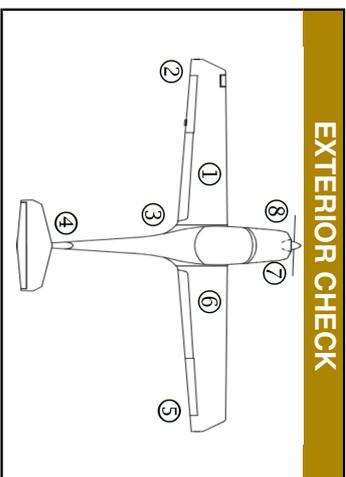
25 Entire Wing	VIS INSP
26 Stall Warning	CHECK
27 Pilot / Stat Opening	CLEAR
28 Wing Tip / Bala. Mass	VIS INSP
29 Pos Light	CHECK
30 Flap	VIS INSP
31 Wing Tiedown	DISCON
32 Aileron Window	VIS INSP

3. Fuselage

33 Skin	VIS INSP
34 Tank Vent	CHECK
35 Tank Drain	CONFIRM
36 Fuel Quantity	CHECK

4. Empennage

37 Fin & Contr. Surface	VIS INSP
38 Skid Plate	VIS INSP
39 Tail Tiedown	DISCON
40 Trim Tab	VIS INSP



Pressure Altitude ft. m	Standard Temp. °C °F	Engine power in % of max. continuous power.													
		55 %				65 %				75 %					
		RPM *100	MP in. Hg	Fuel Flow l/h	Fuel Flow gal/hr	RPM *100	MP in. Hg	Fuel Flow l/h	Fuel Flow gal/hr	RPM *100	MP in. Hg	Fuel Flow l/h	Fuel Flow gal/hr		
0	0	15	59	19	24.7	13.6	3.6	20	25.7	15.6	4.1	21	27.0	18.0	4.8
2000	600	11	52	19	24.0	14.4	3.8	20	24.7	16.0	4.2	22	25.7	18.4	4.9
4000	1200	7	45	19	23.3	15.6	4.1	21	23.3	16.8	4.4	22.6	24.3	19.6	5.2
6000	1800	3	38	20	22.0	16.8	4.4	22	22.7	19.6	5.2	22.6	23.3	23.2	6.1
8000	2400	-1	31	21	21.0	18.0	4.8	22	21.7	21.2	5.6	22.6	22.0 ^x	23.6 ^x	6.2 ^x
10000	3000	-5	24	22	19.7	19.2	5.1	22.6	20.3 ^x	22.4 ^x	5.9 ^x				
12000	3600	-8	17	22.6	18.0 ^x	20.4 ^x	5.4 ^x								

Pressure Altitude ft. m	Standard Temp. °C °F	85 %				95 %				105 %			
		RPM *100	MP in. Hg	Fuel Flow l/h	Fuel Flow gal/hr	RPM *100	MP in. Hg	Fuel Flow L/h	Fuel Flow gal/hr	RPM *100	MP in. Hg	Fuel Flow l/h	Fuel Flow gal/hr
0	0	22.6	27.7	22.0	5.8	22.6	28.3	26.0	6.9	23.8	29.7 ^x	30.0 ^x	7.9 ^x
2000	600	22.6	26.7	22.4	5.9	22.6	27.7 ^x	26.8 ^x	7.1 ^x				
4000	1200	22.6	25.7 ^x	25.2 ^x	6.7 ^x								

LANDING	
1	Airspeed (V_{FE}) Max. 81 KIAS
2	Flaps T/O
3	Lap Belt TIGHTEN
4	Fuel Pump ON
5	Landing Light AS REQ
6	Carburetor Heat PULL ON
7	Throttle AS REQ
8	Trim AS REQ
9	Flaps  LDG
10	Fin. Appr. Spd.  60 KIAS
11	Prop FULL FWD
Throttle	FULL FWD
Prop	FULL FWD
Carburetor Heat	PUSH (OFF)
Flaps	T/O
Climb Airspeed	58 KIAS

 **CAUTION:** Strong cross/head winds may require less flaps/higher airspeeds

AFTER LANDING	
1	Throttle AS REQ
2	Flaps UP
3	Carburetor Heat PUSH (OFF)
4	Fuel Pump OFF
5	Landing Light OFF
6	XPDR GND Mode CHECK

SHUT DOWN	
1	Throttle IDLE
2	Parking Brake SET
3	ELT (121,5 MHz) CHECK
4	Flight Plan CLOSED
5	Avionics OFF
6	Electr. Equipment OFF
7	Ignition OFF
8	ACL OFF
9	Battery Master OFF
10	Flight Logger SLIDE CARD
11	Chocks/Tiedowns AS REQ

5. Right Wing		
41	Entire Wing	VIS INSP
42	Wing Tip / Bala. Mass	VIS INSP
43	Pos Light	CHECK
44	Flap	CHECK
45	Wing Tiedown	DISCON
46	Alleron Window	VIS INSP

6. Right Main Gear		
47	Wheel Fairing/Strut	CHECK
48	Tire Press/Slip Mkr	CHECK
49	Tire/Wheel/Brake	VIS INSP
50	Chocks	REMOVE

7. Nose Section / Cowling		
51	Ignition	CHECK OFF
52	Parking Brake	SET
53	Prop GND Clearance	25 CM
54	Crank Engine 	CHECK NOISE
55	Oil level/diff. 0.45L	CHECK
56	Coolant Level	VIS INSP
57	Cowling	VIS INSP
58	Air+Cooler Intakes	FREE
59	Prop Damage	CHECK
60	Propeller/Spinner	VIS INSP

8. Nose Ldg Gear		
61	Wheel Fairing/Strut	CHECK
62	Gear Strut Mount	VIS INSP
63	Tire Pressure	CHECK
64	Tire/Wheel	VIS INSP
65	Tow Bar	REMOVE

BEF. ENGINE START		
1	Preflight Check	COMPL
2	Passenger Briefing	COMPL
3	Pedals	ADJUST
4	Seat Belts / Harn.	FASTEN
5	Canopy Closed	LOCK
6	Canopy Safety Hook	CHECK
7	Parking Brake	SET
8	Controls Movement	CHECK
9	Fuel Shut-Off Valve	OPEN
10	Trim	NEUTRAL
11	Carburetor Heat	FREE-OFF
12	Throttle	FREE-IDLE
13	Prop RPM	FULL FWD
14	Friction Device	ADJUST
15	Avionic - Master	OFF
16	All CBs	CHECK
17	Battery Master	ON
18	Gen. Warning Light	ILLUMIN
19	Low Voltage Light	ILLUMIN
20	Fuel Warning Light	ILLUMIN
21	ACL	ON

ENGINE START		
1	Before Start Check	COMPL
2	Fuel Pump	ON
3	Fuel Pump Noise	CHECK
4	Fuel Warning Light	OFF
COLD	Throttle - when cold	IDLE
COLD	Choke - when cold	PULL/HOLD
HOT	Throttle - when hot	2 cm OPEN
HOT	Choke - when hot	PUSH
6	Brakes Both Pedals	PRESS
7	Prop Area	CLEAR
8	Ignition	START/BOTH
9	Oil Press < 10 sec	RISING
10	Low Voltage Light	OFF
11	Fuel Pump	OFF
12	Fuel Warning Light	OFF

BEFORE TAKEOFF		
1	Transponder	SET ALT
2	Brakes Both	APPLY
3	Parking Brake	SET
4	Compass/G5	CHECK/SET
5	Fuel Warnng Light	OFF ¹³⁵
6	Engine Instruments	IN GREEN
7	Canopy Safety Hook	LOCKED
8	Throttle	1700 rpm
	L - B - R - B	SWITCH
	Drop max. 120 rpm	CHECK
	Diff L/R max 50 rpm	CHECK
	Ignition Switch Both	CONFIRM
13	Carburetor pull (on)	DROP 20-50 rpm
14	Carburetor	PUSH (OFF)
	Prop RPM	PULL 3X
	→ Drop	200 ±50 rpm
	→ Oil Press	CONSTANT
	→ Manifold Press	CHANGE
19	Throttle	IDLE
20	Fuel Pump	ON
21	RPM 2300 +/-100RPM	CHECK
22	Trim	NEUTRAL
23	Flaps	T/O
24	All CBS	CHECK
25	Contr. Movement	FREE
26	Lap Belt	TIGHTEN
27	Departure Briefing	COMPL
28	T/O Briefing	COMPL
29	Parking Brake	RELEASE

LINE UP / TAKEOFF		
1	Before T/O Check	COMPL
2	Landing Light	AS REQ
3	Approach Sector	CLEAR
4	Runway Heading	CONFIRM
5	Throttle/Prop	FULL FWD
6	Prop RPM 2260-2385	CHECK
7	T/O Power Values	CORRECT
8	Elevator	NEUTRAL
9	Rudder	DIRECTION
10	Rotate (V _R)	51 KIAS
11	Climb Initially	58 KIAS
12	Short T/O (V _X)	58 KIAS

CLIMB		
1	Throttle	FULL
2	Prop full forward	MAX 5 MIN
3	Prop 2260 rpm	REDUCE
4	Engine Instruments	IN GREEN
5	Climb Speed (V _y)	65 KIAS
6	min. 400 ft AGL	CHECK Safe Spd
7	Flaps	UP
8	Climb Speed (V _y)	70 KIAS
9	Trim	AS REQ
10	Landing Light	OFF
11	Fuel Pump	OFF
12	Fuel Warning Light	CHECK

CRUISE		
1	Throttle ¹³⁵	CHECK TABLE
2	Prop	CHECK TABLE
3	Flaps	CHECK UP
4	Trim	AS REQ
5	Position Light ¹³⁵	CHECK OFF
6	Engine Instruments	IN GREEN
7	Manvr. Speed (V _A)	104 KIAS
8	Turbulent Air (V _{No})	117 KIAS

¹³⁵ Full Throttle: → Prop min. 2140 rpm

DESCENT		
1	Altimeter	SET
2	Throttle	AS REQ
3	Prop RPM	1700-2260
4	Carburetor Heat	PULL ON
	Throttle	IDLE
	Prop RPM	2260
	Carburetor Heat	PULL ON
	Flaps	UP
	Airspeed Max.	117 KIAS
	Engine Instruments	IN GREEN