ENGINE FIRE DURING START

If Engine Starts…

CONTINUE CRANKING

Throttle	1700 RPM 3-4 minutes
Mixture	IDLE CUTOFF
Ignition	OFF
Master	OFF

EXIT AIRPLANE

If Engine Does NOT Start…

CONTINUE CRANKING

Throttle	FULL OPEN
Mixture	IDLE CUTOFF
Master	OFF
Ignition	OFF
Fuel Selector	OFF

EXTINGUISH FIRE/EXIT AIRPLANE

IN-FLIGHT FIRE

Engine Fire

Mixture	IDLE CUTOFF
Fuel Selector	OFF
Master	OFF
Cabin Heat/Air	OFF
Airspeed	100 KIAS OR HIGHER

EXECUTE FORCED LANDING

Electrical Fire

Master	OFF
All Other Electrical Switches	OFF
Ignition	ON
Cabin Heat/Air/Vents	CLOSED
Fire Extinguisher	ACTIVATE
Cabin Heat/Air/Vents	OPEN

IF ELECTRICAL POWER IS NEEDED FOR REMAINDER OF FLIGHT, TURN ON MASTER AND AVIONICS ONE BY ONE AS NECESSARY UNTIL SHORT CIRCUIT IS LOCALIZED

LOW OIL PRESSURE

Oil Temp	CHECK

If Normal…

LAND TO INSPECT ASAP

If Abnormal…

Assume Imminent Engine Failure

EXECUTE EMERGENCY/FORCED LANDING

ENGINE FAILURE

Trim for V_G	65 KIAS
Landing Site	LOCATE
Fuel Selector	BOTH
Mixture	RICH
Carb Heat	ON
Primer	IN AND LOCKED
Ignition Switch	START

If Engine Fails to Restart…

Transponder	7700
Comms	121.5 MAYDAY
Fuel Selector	OFF
Mixture	IDLE CUTOFF
Ignition	OFF
Doors	AJAR
Master	OFF

EXECUTE FORCED LANDING
EXIT AIRPLANE

ROUGH ENGINE/POWER LOSS

Possible Carb Ice

Carb Heat	ON

If Resolved…

Throttle	ADJUST
Carb Heat	OFF

Possible Fouled Spark Plugs

Ignition	L or R
Mixture	LEAN
Ignition	BOTH

ELEVATOR CONTROL FAILURE

Trim	60 KIAS
Flaps	20°

CONTROL GLIDE WITH POWER ONLY

During the Flare:

Throttle	CLOSE
Trim	FULL NOSE UP

UNPLANNED ICING ENCOUNTER

Pitot Heat	ON
Altitude	CHANGE
Cabin Heat	ON
Defroster Outlet	OPEN
Throttle	OPEN
Carb Heat	AS REQ'D
Mixture	LEAN IF CARB HEAT USED CONTINUOUSLY

V SPEEDS (kts)

V_R	55
V_X	59
V_Y	73
Normal Climb	70-80
V_{SO}	41
V_{S1}	47
V_{FE} 0-10°	110
V_{FE} 10-40°	85
V_A Max Gross	97
V_A 1,950 lbs	89
V_{NO}	128
V_{NE}	160
V_G	65
Max Window Open	160
Max Demonstrated X-Wind	15

Recommended Entry Speeds:

Chandelles/Lazy 8s	105
Steep Turns	95

ICAO FLIGHT PLANS

7. Aircraft ID	Tail Number
8. Flight Rules	I–IFR, V-VFR
Type of Flight	G-Gen. Aviation
9. # of Aircraft	Only if more than 1
Aircraft Type	C172
Wake Category	L-Light
10. Equipment	/G
13. Dep. Airport	KXXX
Time	Departure Time
15. Cruising Speed TAS	N0XXX
Level	FXXX or AXXX
Route	Insert Rt and Alt/Speed Changes
16. Dest. Airport	KXXX
EET	Est. Elapsed Time
18. Other	0 or RMK/XXX
Endurance	Fuel in Hrs/Min
Persons on Board	# of people
Fill in the rest including PIC Name	

AIRCRAFT INFO

Tire Pressure	31 PSI NOSE, 29 PSI MAIN
Total/Useable Fuel	43/40 gal
Oil	4-6 qts
Max Takeoff Weight	2,300 lbs
Basic Empty Wt/Arm	1,491 lbs/38.54
Electrical	28V - 60A Alt, Battery 24V/10 Amp/hr

PIREPS

Type	UA-Routine, UUA-Urgent
/OV	Location
/TM	Time
/FL	Altitude/Flight Level
/TP	Aircraft Type
/SK	Sky Cover
/WX	Visibility/Weather
/TA	Temperature (Celsius)
/WV	Wind
/TB	Turbulence
/IC	Icing
/RM	Remarks

MISC INFO

GPS Updates	28 Days
VFR Sectionals / IFR Enroute Charts / Approach Plates	56 Days

ATC LIGHT GUN SIGNALS

	GROUND	SIGNAL	AIR
	Cleared for Takeoff	(steady green)	Cleared to Land
	Cleared to Taxi	(flashing green)	Return for Landing
	STOP	(steady red)	Give Way/Circle
	Taxi Clear of Runway	(flashing red)	Airport Unsafe DO NOT LAND
	Return to Starting Point	(flashing white)	N/A
	Exercise Extreme Caution	(alternating red/green)	Exercise Extreme Caution

PRESSURE ALTITUDE FT	RPM	20°C BELOW STANDARD TEMP			STANDARD TEMPERATURE			20°C ABOVE STANDARD TEMP		
		% BHP	KTAS	GPH	% BHP	KTAS	GPH	% BHP	KTAS	GPH
2000	2500	- - -	- - -	- - -	75	116	8.4	71	115	7.9
	2400	72	111	8.0	67	111	7.5	63	110	7.1
	2300	64	106	7.1	60	105	6.3	56	105	6.3
	2200	56	101	6.3	53	100	6.1	50	99	5.8
	2100	50	95	5.8	47	94	5.6	45	93	5.4
4000	2550	- - -	- - -	- - -	75	118	8.4	71	118	7.9
	2500	76	116	8.5	71	115	8.0	67	115	7.5
	2400	68	111	7.6	64	110	7.1	60	109	6.7
	2300	60	105	6.8	57	105	6.4	54	104	6.1
	2200	54	100	6.1	51	99	5.9	48	98	5.7
	2100	48	94	5.6	46	93	5.5	44	92	5.3
6000	2600	- - -	- - -	- - -	75	120	8.4	71	120	7.9
	2500	72	116	8.1	67	115	7.6	64	114	7.1
	2400	64	110	7.2	60	109	6.8	57	109	6.4
	2300	57	105	6.5	54	104	6.2	52	103	5.9
	2200	51	99	5.9	49	98	5.7	47	97	5.5
	2100	46	93	5.5	44	92	5.4	42	91	5.2
8000	2650	- - -	- - -	- - -	75	122	8.4	71	122	7.9
	2600	76	120	8.6	71	120	8.0	67	119	7.5
	2500	68	115	7.7	64	114	7.2	60	113	6.8
	2400	61	110	6.9	58	109	6.5	55	108	6.2
	2300	55	104	6.2	52	103	6.0	50	102	5.8
	2200	49	98	5.7	47	97	5.5	45	96	5.4
10,000	2650	76	122	8.5	71	122	7.9	67	121	7.5
	2600	72	120	8.1	68	119	7.6	64	118	7.1
	2500	65	114	7.3	61	114	6.8	58	112	6.5
	2400	58	109	6.5	55	108	6.2	52	107	6.0
	2300	52	103	6.0	50	102	5.8	48	101	5.6
	2200	47	97	5.5	45	96	5.4	44	95	5.3