

N870SP EMERGENCY CHECKLIST

ENGINE FIRE DURING START

If Engine Starts...

Power 1800RPM FOR FEW MINT
Throttle CLOSE
Mixture IDLE CUT OFF
Fuel shut off valve OFF(Pull full out)
Auxiliary Fuel Pump OFF
Ignition Switch OFF
Master Switch OFF
EXIT AIRPLANE

If Engine Does NOT Start...

Ignition Switch CONTINUE
CRANKING
Mixture IDLE CUT OFF
Throttle OPEN
Fuel shut off valve OFF(Pull full out)
Auxiliary Fuel Pump OFF
Ignition Switch OFF
Master Switch OFF
EXIT AIRPLANE

ENGINE FAILURE DURING FLIGHT

Trim **68 KIAS**
Landing Site LOCATE
Fuel Selector BOTH
Fuel shut off valve ON (Push full in)
Mixture RICH
Auxiliary Fuel Pump ON
Ignition Switch START

If Engine Does NOT Start...

Transponder 7700
Radio - 121.50 "MAYDAY/
CURRENT POSITION"
Fuel shut off valve OFF(Pull full out)
Auxiliary Fuel Pump OFF
Mixture IDLE/CUT OFF
Ignition Switch OFF
Flaps AS DESIRED
Master Switch OFF
Doors AJAR

ROUGH ENGINE/LOSS OF POWER

POSSIBLE CARBURETOR ICING

Carburetor Heat ON

If Problem Resolved

Throttle RE-ADJUST
Carburetor Heat OFF

POSSIBLE SPARK PLUG FOULING

Ignition Switch TURN TO "L" OR
"R" POSITION
Mixture LEAN AS DESIRED
Try Both position, see if problem
resolved

ENGINE FIRE DURING FLIGHT

Mixture IDLE/CUT OFF
Fuel Selector OFF(PULL OUT)
Auxiliary Fuel Pump OFF
Ignition Switch OFF
Cabin Vents CLOSED/OFF
Master Switch OFF
Airspeed INCREASE
(to extinguish flames)
Side Slip To Landing Site
Doors AJAR

LOW OIL PRESSURE

Oil Temperature Check
If Normal (Green Arc)
LAND TO INSPECT ASAP
If Abnormal (High)
Suspect Immediate Engine Failure
Engine Power REDUCE
Landing Site SELECT
Doors AJAR

ELECTRICAL MALFUNCTIONS

Ammeter - HIGH Rate of Charge
Over-Voltage Light Illuminates
Alternator OFF
Alternator ON
Over-Voltage Light Illuminates
TERMNATE FLIGHT
Ammeter - LOW Rate of Charge
Non-essential electrical equipment OFF
Flight TERMINATE
(at nearest Airport)

ATC LIGHT SIGNALS

	GROUND	FLIGHT
Steady Green	Clear to T/O	Clear to Land
Flashing Green	Clear to Taxi	Return to Land
Steady Red	STOP	Give Way
Flashing Red	Taxi Clr. Rwy	Airport Unsafe
Flashing White	Return to Start	N/A

Alt. Red/Green Caution Caution

V SPEEDS

Vr 55
Vx 2550 lbs 61
Vy 2550 lbs. 74
Normal Climb 70 - 85
Vso 40
Vs 48
Vfe 0-10 110
Vfe 10-30 85
Va (Max Gross) 105
Vno 129
Vne 163
Vglide (1900lbs)65
Vglide(full gross)68
Max Demo X-Wind ~15

PIREPS

- 1 Cloud Ceilings or Tops
- 2 Precipitation / Icing
- 3 Turbulence
- 4 Visibility
- 5 Temperature

FAA FLIGHT PLANS

- 1 Type
- 2 Aircraft ID
- 3 Aircraft Type / Equipment (M20P/A)
- 4 True Airspeed
- 5 Departure Point
- 6 Departure Time
- 7 Cruising Altitude
- 8 Route
- 9 Destination
- 10 Est. Time Enroute
- 11 Remarks
- 12 Fuel Onboard
- 13 Alternate
- 14 Pilot's Name
- 15 Number Onboard
- 16 Color
- 17 Destination Contact Phone #

AIRCRAFT INFO

Tire Pressure
NOSE 45 PSI
MAIN GEAR 38 PSI
Total Fuel 56 GALLONS
USABLE FUEL 53 GALLONS
Oil Capacity 8 QUARTS
Max Gross Takeoff Weight 2550 LBS
Max Baggage 120 LBS

MISCELLANEOUS INFO

GPS Updates FOR IFR – 28 DAYS
VFR Sectional Charts 6 MONTHS
IFR Enroute Charts 56 DAYS
IFR Approach Book 56 DAYS

PERFORMANCE CHARTS

2,000' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2500	73	9.9	115	4.4	510
2400	64	9.0	110	5.0	550
2300	57	8.1	104	5.5	575
4,000' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2500	69	9.5	115	4.9	525
2400	61	8.5	109	5.1	570
2300	54	7.7	109	5.8	600
6,000' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2500	65	9.0	114	4.9	550
2400	51	8.2	108	6.3	615
2300	45	7.4	101	6.8	635
8,000' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2500	61	8.6	112	5.2	570
2400	54	7.8	106	5.8	610
2300	48	7.1	99	6.5	625
10,000 MSL					
RPM	%HP	G/HR	TAS	END	RNG
2500	57	8.2	111	5.5	590
2400	51	7.5	104	6.2	620
2300	46	6.8	97	6.6	625



FLIGHT SCHOOL
of
Greenville