

# N21923 EMERGENCY CHECKLIST

## ENGINE FIRE DURING START

### If Engine Starts...

Throttle OPEN (momentarily)  
 Throttle CLOSE  
 Mixture IDLE CUT OFF  
 Ignition Switch OFF  
 Master Switch OFF

EXIT AIRPLANE

### If Engine Does NOT Start...

Ignition Switch CONTINUE CRANKING  
 Mixture IDLE CUT OFF  
 Throttle OPEN (momentarily)  
 Ignition Switch OFF  
 Master Switch OFF  
 EXIT AIRPLANE

## ENGINE FAILURE DURING FLIGHT

Trim **70 MPH**  
 Landing Site LOCATE  
 Fuel Selector ON  
 Mixture RICH  
 Carburetor Heat ON  
 Ignition Switch START  
 Primer IN/LOCKED

### If Engine Does NOT Start...

Transponder 7700  
 Radio - 121.50 "MAYDAY/  
 CURRENT POSITION"  
 Fuel Selector 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  
 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 MASTER  
 SWITCH OFF  
 Master Switch ON  
 Over-Voltage Light Illuminates TERMINATE  
 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 49  
 Vx 1600 lbs. 70  
 Vy 1600 lbs. 76  
 Normal Climb 75-85  
 Vso 49  
 Vs 56  
 Vfe 100  
 Va (Max Gross) 109  
 Vno 120  
 Vne 162  
**Vglide 70**  
 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 Number

## AIRCRAFT INFO

Tire Pressure  
 NOSE 30 PSI  
 MAIN GEAR 21 PSI  
 Total Fuel 26 GALLONS  
**USABLE FUEL 22.5 GALLONS**  
 Oil Capacity 6 QUARTS  
 Max Gross Takeoff Weight 1600 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

2,500' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2700	87	6.6	119	3.4	410
2600	77	5.8	114	3.9	445
2500	68	5.1	108	4.4	475
5,000' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2700	80	6.0	118	3.8	445
2600	71	5.3	113	4.2	475
2500	63	4.8	107	4.7	505
7,500' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2700	74	5.5	117	4.1	480
2600	66	4.9	111	4.6	505
2500	58	4.4	105	5.1	535
10,000' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2700	68	5.1	116	4.4	510
2600	61	4.6	109	4.9	535
2500	54	4.1	102	5.4	555
12,500 MSL					
RPM	%HP	G/HR	TAS	END	RNG
2650	60	4.5	110	5.0	550
2600	56	4.3	106	5.3	555
2500	50	3.9	97	5.8	565

