

N172DP EMERGENCY CHECKLIST

ENGINE FIRE DURING START

If Engine Starts...

Throttle OPEN (momentarily)
 Throttle 1000 RPM
 Mixture IDLE CUT OFF
 Ignition Switch OFF
 Master Switch OFF
 EXIT AIRPLANE, INSPECT DAMAGE

If Engine Does NOT Start...

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

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

ELECTRICAL FIRE DURING FLIGHT

Avionics Power Switch OFF
 All other Switches (Except Ignition) OFF
 Vents/Cabin Air/Heat OFF
 Master Switch OFF

ENGINE FAILURE DURING FLIGHT

Trim **75 KTS**
 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"
 Landing Gear DOWN, (UP if terrain is
 rough or soft)
 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

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

If Over-Voltage Light Illuminates MASTER

SWITCH OFF

Master Switch ON

If Over-Voltage Light Illuminates

TERMINATE FLIGHT

Ammeter - LOW Rate of Charge

Non-essential electrical equipment OFF

Flight TERMINATE

(at nearest Airport)

LANDING GEAR MALFUNCTIONS

Landing Gear Fails To Retract

Master Switch ON

Landing Gear Lever CHECK/UP

Landing Gear Circuit Breaker IN

Landing Gear Pump Circuit Breaker IN

Gear Up Light CHECK

Landing Gear Lever RECYCLE

Gear Motor CHECK OPERATION

(Ammeter & Noise)

Landing Gear Fails To Extend

Master Switch ON

Landing Gear Lever DOWN

Landing Gear Circuit Breaker IN

Landing Gear Pump Circuit Breaker IN

Emergency Hand Pump EXTEND

HANDLE & PUMP

(until resistance is heavy, ~35 cycles)

Gear Down Light ON

Pump Handle STOW

Gear Up Landing

Landing Gear Lever UP

Landing Gear/Pump Circuit Breaker IN

Runway SELECT

(Longest, Hardest, Smoothest)

Flaps 30° ON FINAL

Airspeed 65 KTS

Doors UNLACHED

Avionics OFF

Master Switch OFF

Touchdown SLIGHTLY TAIL LOW

Mixture LEAN/SHUTOFF

Ignition Switch OFF

Fuel Selector OFF

EVACUATE AIRPLANE ASAP

Landing W/O Positive Gear Down

Before Landing Checklist COMPLETE

Approach NORMAL

Landing Gear/Pump Circuit Breaker IN

Touchdown TAIL LOW

Braking MINIMUM

Taxi SLOW

Landing With Defective Nose Gear

Movable Load TRANSFER to baggage

Passenger MOVE to rear seat

Before Landing Checklist COMPLETE

Flaps 30° ON FINAL

Doors UNLACHED

Avionics OFF

Master Switch OFF

Touchdown TAIL LOW

Mixture LEAN/SHUTOFF

Ignition Switch OFF

Fuel Selector OFF

Elevator Control HOLD NOSE OFF

EVACUATE AIRPLANE

Landing With Flat Main Tire

Approach NORMAL

Touchdown GOOD TIRE FIRST

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

Vlo 140

Vle 164

Va (Max Gross) 106

Vno 145

Vne 164

Vglide 75

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 31 PSI

MAIN GEAR 29 PSI

Total Fuel 66 GALLONS

USABLE FUEL 52 GALLONS

Oil Capacity 8 QUARTS

Max Gross Takeoff Weight 2650 LBS

Max Baggage 200 LBS

PERFORMANCE CHARTS

2,000' MSL

RPM	%HP	G/HR	TAS	END	RNG
2500	74	9.9	131	5.2	688
2400	72	9.6	129	5.4	698
2300	69	9.2	127	5.6	717

4,000' MSL

RPM	%HP	G/HR	TAS	END	RNG
2500	77	10.2	135	5.0	688
2400	74	9.9	133	5.2	698
2300	71	9.5	131	5.4	717

6,000' MSL

RPM	%HP	G/HR	TAS	END	RNG
2500	77	10.0	136	5.2	707
2400	72	9.6	134	5.4	725
2300	70	9.3	132	5.5	738

8,000' MSL

RPM	%HP	G/HR	TAS	END	RNG
2500	73	9.7	136	5.3	729
2400	70	9.4	134	5.5	741
2300	68	9.1	132	5.7	754

10,000' MSL

RPM	%HP	G/HR	TAS	END	RNG
2400	63	8.6	129	6.0	780
2300	61	8.3	121	6.2	758