

# N159FS EMERGENCY CHECKLIST

## ENGINE FIRE DURING START

### If Engine Starts...

Power 1700RPM 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 **65 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 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  
 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 55

Vx 2450 lbs 60  
 Vy 2450 lbs. 79  
 Normal Climb 70 - 85  
 Vso 33  
 Vs 44  
 Vfe 0-10 110  
 Vfe 10-30 85  
 Va (Max Gross) 99  
 Vno 129  
 Vne 163  
**Vglide(full gross)65**  
 Max Demo X-Wind ~15

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
2200	74	8.5	115	5.4	595
2100	65	7.5	110	6.2	655
2000	58	6.6	104	7.0	690
4,000' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2300	79	9.1	117	4.9	570
2200	70	8.1	111	5.5	625
2100	62	7.1	105	6.5	675
6,000' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2300	75	8.6	117	5.2	600
2250	71	8.1	114	5.5	625
2200	67	7.7	111	6.1	650
8,000' MSL					
RPM	%HP	G/HR	TAS	END	RNG
2300	71	8.2	116	5.5	625
2200	64	7.3	110	6.1	660
2100	57	6.6	102	6.9	705
10,000 MSL					
RPM	%HP	G/HR	TAS	END	RNG
2300	68	7.8	115	5.6	645
2200	61	7.0	108	6.4	680
2100	55	6.4	100	7.4	715

## 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



FLIGHT SCHOOL  
 of  
 Greenville