



# N252B

## Emergency Check

### ANNUNCIATOR PANEL WARNING LIGHTS

<b>GEAR UNSAFE</b>	Landing Gear is not in fully extended/retracted position
<b>LEFT/RIGHT FUEL LOW</b>	2.5 to 3 gals. of usable fuel remains in that tank.
<b>VAC (flashing)</b>	Suction is below 4.25" Hg (AI and DG unreliable)
<b>VAC (steady)</b>	Suction is above 5.5" Hg (AI and DG unreliable)
<b>VOLTS (flashing)</b>	Low Voltage
<b>VOLTS (steady)</b>	Over-Voltage or tripped voltage relay
<b>ALT AIR</b>	Alternate Air door is open
<b>START POWER ON</b>	Switch or relay malfunction and starter is energized. <b>Terminate flight ASAP. Engine damage possible.</b>

### POWER LOSS - Takeoff Roll

Throttle	CLOSED
Brakes	Apply Maximum
Fuel Selector	OFF
Magneto/Starter Switch	OFF
Master Switch	OFF

### POWER LOSS - After Lift-off (Climb)

Airspeed	85 KIAS (Flaps UP) 75 KIAS (Flaps Takeoff)
Fuel Selector	Other Tank (Fullest)
Throttle	FULL FORWARD
Propeller	High RPM
Mixture	RICH
Magneto Switch	Verify on BOTH
High Boost	ON
<b>ENGINE DOESN'T START:</b>	<b>POWER OFF LANDING</b>

### POWER LOSS - During Flight

Airspeed	85 KIAS Minimum
Fuel Selector	Verify on Fullest Tank (above 12000 ft. it takes 13 seconds to restart for fuel)
<b>ENGINE DOESN'T START:</b>	
Magneto/Starter Switch	Check on BOTH
Throttle	FULL FORWARD
Propeller	High RPM
Mixture	RICH (Above 18000 ft. move Mixture slowly to RICH)
<b>ENGINE DOESN'T START:</b>	<b>High Boost Pump ON</b>

### AFTER ENGINE RESTARTS

Throttle	Adjust as Required
Propeller	Adjust as Required
Mixture	RELEAN
High Boost Pump	OFF

### POWER LOSS - Primary Engine Induction Air System

Engine Power	Verify progressive MP loss
Alternate Air	Verify OPEN (Annunciator ON)
Throttle	Increase to maintain MP
Propeller	Increase if necessary
Mixture	RELEAN to Peak TIT

### IN CASE POWER NOT RESTORED

Airspeed	85 KIAS
Alternate Air	Manually OPEN
Throttle	FULL FORWARD
Propeller	High RPM
Mixture	Idle Cutoff (Initially)
Magneto/Starter Switch	Verify on BOTH
High Fuel Boost Pump	OFF
Mixture	Advance slowly till start
Throttle	Adjust as Required
Propeller	Adjust as Required
Mixture	RELEAN
<b>ENGINE DOESN'T START:</b>	<b>POWER OFF LANDING</b>

### TURBOCHARGER FAILURE - Complete Loss of Engine Power

Mixture	Idle Cutoff
Throttle	CRUISE Position
Propeller	High RPM
Mixture	Advance slowly till start

### TURBOCHARGER FAILURE - Reduction of Power but Engine Running

Throttle	As Little as Possible
Propeller	As Required
Mixture	Adjust to fuel flow for selected power setting
<b>Continued Flight</b>	<b>Land ASAP</b>



# N252BP

## Emergency Check

### HIGH OIL TEMPERATURE

Cowl Flaps	OPEN as Required
Airspeed	INCREASE
Power	REDUCE
<b>Prepare for possible Engine Failure</b>	

### LOW OIL PRESSURE

Oil Temperature & Pressure	MONITOR
Pressure below 10 PSI	<b>Expect Engine Failure</b>

### ENGINE DRIVEN FUEL PUMP FAILURE

Mixture	Idle Cutoff
Throttle	CRUISE Position
High Boost Pump	ON
Mixture	Advance Until Engine Starts
<b>Continued Flight</b>	<b>Land ASAP</b>

### FUEL VAPOR SUPPRESSION - Fluctuating Fuel Flow

Low Fuel Boost Pump	ON
Fuel Flow	MONITOR
Low Fuel Boost Pump	OFF

### ENGINE FIRE - During Starting

Starter Switch	Hold in Cranking Position
<b>IF ENGINE STARTS:</b>	
Power	1500 RPM for several minutes
Engine	Shutdown and Inspect

### IF ENGINE WON'T START:

Starter Switch	Continue Cranking
Mixture	Idle Cutoff
Throttle	FULL OPEN
Fuel Selector Valve	OFF
Magneto/Starter Switch	OFF
Master Switch	OFF
Fire Extinguisher	OBTAIN
Fire	Extinguish

### ENGINE FIRE - In Flight

Fuel Selector Valve	OFF
Throttle	CLOSED (Full Aft)
Mixture	Idle Cutoff
Magneto/Starter Switch	OFF
Cabin & Heating Vents	CLOSED
Cowl Flaps	CLOSED
Airspeed	INCREASE

### TURBOCHARGER FAILURE - Engine Power Overboost

Throttle	Reduce as necessary for MP limits (sensitive)
Propeller	As Required
Mixture	Adjust to fuel flow for selected power setting
<b>Continued Flight</b>	<b>Land ASAP</b>

### ENGINE ROUGHNESS

Engine Instruments	Check
Fuel Selector	Other Tank
Mixture	Readjust for Smooth Operation
Magneto/Starter Switch	Check L, R, BOTH Engine may switch off if other magneto faulty; Close throttle; Mixture Idle Cutoff before restart!
Throttle	REDUCE to check if lower power reduces roughness

### REDUCTION IN POWER - Engine Surging

Mixture Control	Idle Cutoff
Fuel Selector	Other Tank
Low Fuel Boost Pump	ON 3-5 seconds
Throttle	CRUISE Position
Propeller	2700 RPM
Mixture	Advance Slowly Until Start
Boost Pump	OFF
Mixture	Adjust to Fuel FLOW
<b>ENGINE DOESN'T START:</b>	<b>High Boost Pump ON</b>
<b>ENGINE DOESN'T START:</b>	<b>Repeat after descending below 12,000 ft.</b>

### COWL FLAP FAILURE IN CLOSED POSITION

Power	As Required
Mixture	RICH
Airspeed	130 KIAS
CHT & Oil Temperature	MONITOR in green

### HIGH CYLINDER HEAD TEMPERATURE

Mixture	Readjust to proper TIT
Cowl Flaps	OPEN as required
Airspeed	INCREASE
Power	REDUCE as Required



# N252B Emergency Check

## POWER OFF LANDING

Landing Gear	DOWN or UP depending on terrain
Approach Speed	75 KIAS
Master Switch	OFF prior to landing

## POWER ON LANDING - Gear Retracted

ELT	ARMED
Seat Belts & Harness	SECURE
Cabin Door	UNLATCHED

**When Sure of Making Landing Area:**

Fuel Selector	OFF
Throttle	CLOSED
Mixture	IDLE Cutoff
Magneto/Starter Switch	OFF
Flaps	FULL DOWN
Master Switch	OFF
Approach Speed	As Slow As Possible
Wings	Level

## PROPELLER OVERSPEED

Throttle	RETARD
Oil Pressure	Check
Propeller	DECREASE if possible
Airspeed	REDUCE
Throttle	REDUCE to below 2700 RPM

## LOW FUEL FLOW

Check Mixture	ENRICH
Fuel Selector	FULLEST TANK
Boost Pump	If necessary
<b>Continued Flight</b>	<b>Land ASAP</b>

## ALTERNATOR OVER-VOLTAGE

Avionics Master Switch	OFF
Master Switch	OFF then ON

**If Warning Light Is Still Illuminated:**

Alternator Circuit Breaker	PULL
Non-Essential Electrical Equipment	OFF
<b>Continued Flight</b>	<b>Land ASAP</b>

## ALTERNATOR LOW VOLTAGE

Alternator Field Switches	OFF
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**If Warning Light Is Still Flashing:**

Alternator Circuit Breaker	PULL
Non-Essential Electrical Equipment	OFF
<b>Continued Flight</b>	<b>Land ASAP</b>

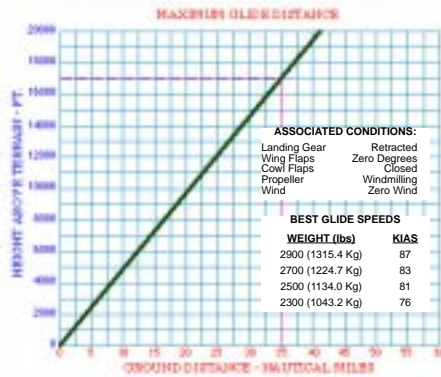
## ELECTRICAL FIRE - In Flight Smoke In Cabin

Master Switch	OFF
Alternator Switches	OFF
Cabin Vents	OPEN
Heating Controls	CLOSED
Circuit Breakers	CHECK for faulty circuit
<b>Continued Flight</b>	<b>Land ASAP</b>
<b>IF ELECTRICAL POWER ESSENTIAL:</b>	
Master Switch	ON
Alternator Switches	ON
Essential Switches	ON one at a time

## EMERGENCY DESCENT PROCEDURE

Power	IDLE
Airspeed	140 KIAS
Landing Gear	DOWN
Wing Flaps	UP
Cowl Flap	CLOSED
Airspeed	Maintain 140 KIAS
Speed Brakes	EXTEND

**Do Not Exceed 20" Hg MP before CHT is above 250°F**



## POWER OFF LANDING

ELT	ARMED
Seat Belts & Harness	SECURE
Cabin Door	UNLATCHED
Fuel Selector	OFF
Mixture	IDLE Cutoff
Magneto/Starter Switch	OFF
Flaps	FULL DOWN



# N252BP Emergency Check

## ICE PROTECTION

Pitot Heat	ON
Propeller De-ice	ON
Alternate Static Source	ON if Required
Manifold Pressure	Monitor for Power Drop
<b>If MP indicates Power Loss from blockage:</b>	
Throttle	INCREASE
Propeller	INCREASE as necessary
Mixture	RELEASE to Peak TIT
Cowl Flap	OPEN as required for cooling

## EMERGENCY EXITS

<b>CABIN DOOR</b>	
Latch Handle	PULL AFT
Door	OPEN and Exit
<b>BAGGAGE COMPARTMENT DOOR</b>	
Rear Seats	FOLD FORWARD; Climb Over
Plastic Cover	Pull OFF
White Button	PULL
Red Handle	LIFT UP
Door	OPEN and Exit
<b>To re-engage outside latch:</b>	Open outside handle fully, close inside red handle to engage pin into cam slide of latch mechanism, push in on white button until it snaps in place; replace cover. Operate outside handle as normal

## LANDING GEAR WON'T EXTEND

Airspeed	140 KIAS or less
Landing Gear Circuit Breaker	PULL
Landing Gear Switch	DOWN
Manual Gear Extension Mechanism	LATCH FORWARD; LEVER BACK
T-Handle	Slowly pull 1 to 2 inches to engage drive shaft
T-Handle	PULL and RELEASE 12 to 20 times until Gear down and Locked; <b>STOP WHEN RESISTANCE FELT</b>
Visual Gear Down Indicator	CHECK
Lever	Return to normal position
Latch	Secure
Landing Gear Circuit Breaker	RESET

## LANDING GEAR WON'T RETRACT

Gear Safety Bypass Switch	DEPRESS until gear fully retracted
"GEAR UNSAFE" & "GEAR DOWN" Lights	OUT
"GEAR RELAYS" Circuit Breaker	PULL (Warning horn OFF)
<b>For Gear Extension:</b>	
"GEAR RELAYS" Circuit Breaker	RESET
Landing Gear Switch	DOWN

## STATIC SOURCE BLOCKED

Alternate Static Source	PULL ON
Airspeed and Altimeter	Shows climb and higher altitude and speed

## UNLATCHED DOOR IN FLIGHT

Airspeed	96 KIAS
Pilot's Window	OPEN
Aircraft	RIGHT SIDESLIP (Right Bank, Left Rudder)
Door	PULL SHUT & LATCH
Pilot's Window	CLOSE