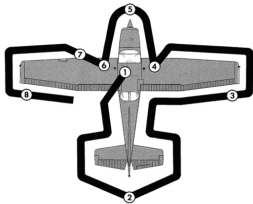


Initial

- Required Docs A.R.O.W.
Control Lock Remove
Fuel Selector Both
Fuel Shutoff ON
Trim Takeoff
Mixture Idle Cutoff
Throttle Closed
Magnetos OFF
Avionics (Bus 1 and 2) OFF
Master (ALT and BAT) ON
Primary Flight Display Verify ON
Hobbs/ Tach Times Verify
Fuel Qty (L and R) Check
Low Fuel Annunciators Verify OFF
Oil Pressure Annunciators Check
Low Vacuum Annunciators Check
Avionics (1 & 2) Check fans individually
Avionics Master Switch OFF
Alternate Static Source Test, then OFF
Flaps Extend Full
All Light Switches ON
Pitot Heat ON
All Lights, Pitot Heat Check Operation
All Light Switches OFF
Pitot Heat OFF
Master Switch OFF
Fire Extinguisher Check
Emergency Checklist Accessible



Exterior

- Fuel Quantity Check
Fuel Quality Check
Caps/Drains/Vents Check
Oil 6-8 Quarts
Prop/Air Intake Check
Exhaust System Check
Surfaces and Controls Check, No Damage
Pitot & Static Ports. Clear
Gear/Tires/Brakes Check
Antennas Check, No Damage
Stall Indicator Clear
Ties/Chocks Remove
Baggage Door Closed
Final Walk Around Complete

Before Start

- Seatbelts ON
Doors Closed and Latched
Passenger Briefing S.A.F.E.T.Y.
Circuit Breakers Checked In
Electrical Equipment Off
Avionics Off
Brakes Set

Starting Engine

- Mixture Idle Cutoff
Standby Battery Test, then Arm
Engine Indicating Systems No Red X's
BUS E Volts 24 Min
M BUS Volts 1.5 or less
BATT S Amps Verify Discharge
STBY BATT Annunciator Verify ON
Master (ALT and BAT) ON
Beacon ON

If Engine is Warm Skip to Hot Start

Cold Start

- Fuel Pump ON
Mixture RICH 3-5 Seconds
Mixture Idle Cutoff
Fuel Pump OFF

Hot Start

- Priming Not Required

- Throttle Open 1/4 Inch
Prop Area Clear
Magnetos Start
Mixture RICH
Throttle 700-800 RPM
Oil Pressure Check
AMPS Verify Charge
Low Volts Annunciator Verify OFF
Avionics ON
Nav Lights As Required
Mixture Lean for Taxi
Flaps UP

Pre-Taxi

- ATIS/AWOS Listen
Altimeter (PFD & STBY) Set
Stby Attitude Indicator Set
Taxi Light ON
Brakes Test

*This checklist is not intended to replace
procedures found in the Pilot's Operating Handbook.
Always consult the POH in an emergency.*

Run UP

Brakes..... Set
 Flight Controls Free & Correct
 Instruments (PFD & Standby) Check
 Autopilot Engage
 Flight Controls Check (Overpower AP)
 Autopilot Disengage
 Flight Director..... OFF
 Manual Electric Trim..... Test
 Trim..... Takeoff
 Mixture..... Rich
 Fuel Selector Valve..... Both
 Throttle..... 1800RPM
 Magneto Check L & R (Max 150, max difference 50)
 VAC Check
 Engine Indicators Check, No Red X's
 Amps/Volts..... Check
 Annunciators Check None Shown
 Throttle..... Check Idle
 Throttle..... 700-800 RPM
 Throttle Control Friction Set
 Heading Bug Set
 ALT SEL Set
 COM/NAV..... Set
 Transponder..... Set
 Takeoff Briefing Complete
 Brakes..... Release

Pre-Takeoff

Flaps 0-10
 Mixture Rich
 Pitot Heat As Required
 Doors/Windows Closed
 Transponder..... Set
 Strobes ON
 Landing Light ON
 Time..... Note

Takeoff

Throttle..... Full
 Rotate..... 55 KIAS
 Climb 70-80 KIAS
 Flaps UP

Climb

Airspeed..... 75-85 KIAS
 Throttle..... Full
 Mixture..... Rich
 Instruments Check

Cruise

Level & Trim Set
 Power Cruise Set
 Mixture..... Lean
 Taxi/Landing Light As Desired
 Instruments Check

Decent

Fuel Selector Both
 Power Set
 Mixture Adjust as needed
 ATIS/AWOS Listen
 Altimeter (PFD & STBY) Set

Before Landing

Seatbelts..... ON
 Fuel Selector..... Both
 Mixture Rich
 Landing Light..... ON
 Autopilot OFF

After Landing

Flaps Up
 Mixture Lean for Taxi
 Trim..... Takeoff
 Landing Light OFF
 Strobe Lights..... OFF
 Taxi Light ON
 Pitot Heat..... OFF

Securing

Transponder 1200
 Electrical Equipment..... (Except Beacon) OFF
 Avionics OFF
 Throttle..... Idle
 Mixture Idle Cutoff
 Magneto OFF
 Beacon OFF
 Master OFF
 Tach Time Record
 STBY BATT OFF
 Control Lock..... Install
 Fuel Selector Left or Right

V Speeds

Vr.....55
 Vx.....62
 Vy.....74
 Vfe.....85
 Best Glide 68

Grand Prairie Airport VRF Departure/Arrival Procedures

Outbound Traffic 2,500 MSL
 Inbound Traffic 2,000 MSL
 Traffic Pattern Alt: 1,400 MSL
 RWY 36: Rgt t/c RWY 18: Lft t/c

KGPM Tower: 128.55
 GROUND: 121.15

Cessna 172S G1000 Skyhawk

EMERGENCY PROCEDURES

SPARTAN
FLIGHT ACADEMY

ENGINE FAILURES



ENGINE FAILURE DURING TAKEOFF ROLL

Throttle.....	Idle
Brakes.....	Apply
Flaps.....	Retract
Mixture.....	Idle Cutoff
Magnetos.....	Off
STBY BATT.....	Off
Master (ALT and BAT).....	Off

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

A - Airspeed..... 70 KIAS (with flaps up)

65 KIAS (flaps 10-Full)

B - Best place to land..... Straight or within 30°

C - Configure

Mixture.....	Idle Cutoff
Fuel Shutoff Valve.....	Off (pull full out)
Magnetos.....	Off
Flaps.....	As Required
STBY BATT.....	Off
Master (ALT and BAT).....	Off
Cabin Door.....	Unlatch

ENGINE FAILURE DURING FLIGHT

A - Airspeed..... 68 KIAS (with flaps up)

B - Best place to land..... Pilot's Discretion

C - Configure

Fuel Selector..... Both

Fuel Shutoff Valve..... On (full in)

Mixture..... Rich

Fuel Pump..... On

Magnetos..... L-R-Both

Engine Instruments..... Check

D - Declare Emergency

Squawk..... 7700

Contact..... ATC or 121.5

Proceed to Force Landing

FORCED LANDINGS



Seats/Seatbelts.....	Upright/Secure
Airspeed.....	70 KIAS (with flaps up)
	65 KIAS (flaps 10-full)
Mixture.....	Idle Cutoff
Fuel Shutoff Valve.....	Off (pull full out)
Magnetos.....	Off
Flaps.....	As Required
STBY BATT.....	Off
Master (ALT and BAT)	Off (when landing assured)
Doors.....	Unlatch
Touchdown.....	Slightly Tail Low
Brakes.....	Apply

PRECAUTIONARY LANDING WITH POWER

Seats/Seatbelts.....	Upright/Secure
Airspeed.....	65 KIAS
Flaps.....	20
Selected Field.....	Fly Over (noting terrain)
Flaps.....	Full (on final approach)
Airspeed.....	65 KIAS
STBY BATT.....	Off
Master (ALT and BAT)	Off (when landing assured)
Doors.....	Unlatch
Touchdown.....	Slightly Tail Low
Mixture.....	Idle Cutoff
Magnetos.....	Off
Brakes.....	Apply

DITCHING

Seats/Seatbelts.....	Secure
Flaps.....	20-Full
Power.....	300 ft/min decent at 55 KIAS
If No Power.....	70 KIAS (Flaps Up) / 65 (Flaps 10)
Approach	
High Winds / Heavy Seas.....	Into Wind
Light Winds / Heavy Swells.....	Parallel to Swells
Doors.....	Unlatch
Touchdown.....	Level Altitude
Face Cushion at Touchdown	
ELT.....	Activate
Airplane.....	Evacuate Through Cabin Doors

FIRES



DURING START ON GROUND

Magnetos..... Start (Continue Cranking)

IF ENGINE STARTS

Power..... 1800 RPM (for a few minutes)

Engine..... Shutdown (inspect for damage)

IF ENGINE FAILS TO START

Throttle.....	Full Open
Mixture.....	Idle Cutoff
Magnetos.....	Start (Continue Cranking)
Fuel Shutoff Valve.....	Off (pull full out)
Fuel Pump.....	Off
Magnetos.....	Off
STBY BATT.....	Off
Master (ALT and BAT).....	Off
Engine.....	Secure
Parking Brake.....	Release
Fire Extinguisher.....	Obtain
Airplane.....	Evacuate
Fire.....	Extinguish

**Fires Continued
On Reverse Side**



FIRES CON'T



ELECTRICAL FAILURES



ENGINE FIRE IN FLIGHT

Mixture	Idle Cutoff
Fuel Shutoff Valve	Off
Fuel Pump	Off
Master (ALT and BAT)	Off
Cabin Vents	Open (as needed)
Cabin Heat / Air	Off (push full in)
Airspeed	100 KIAS

If fire not extinguished, increase airspeed within limitations, to create incombustible mixture

Forced Landing Execute

ELECTRICAL FIRE IN FLIGHT

STBY BATT	Off
Master (ALT and BAT)	Off
Cabin Vents	Closed
Cabin Heat / Air	Off (push full in)
Fire Extinguisher	Activate
Avionics	Off
All Other Switches (except Magnetos)	Off

ONCE FIRE IS EXTINGUISHED

Cabin Vents	Open
Cabin Heat / Air	On (pull full out)

IF ELECTRICAL POWER NECESSARY

Circuit Breakers	Check (Do not reset)
Master (ALT and BAT)	On
STBY BATT	Arm
Avionics Bus 1	On
Avionics Bus 2	On

CABIN FIRE

STBY BATT	Off
Master (ALT and BAT)	Off
Cabin Vents	Closed
Cabin Heat / Air	Off (push full in)
Fire Extinguisher	Activate

ONCE FIRE IS EXTINGUISHED

Cabin Vents	Open
Cabin Heat / Air	On (pull full out)
Land	As soon as possible

WING FIRE

Landing / Taxi Lights	Off
Nav Lights	Off
Strobes	Off
Pitot Heat	Off
(using rudder pedal on same side as fire)	
Land as soon as possible, flaps only as required	

HIGH VOLTS ANNUNCIATOR

Master (ALT Only)	Off
Electrical Load	Reduce Immediately as follows
Avionics BUS 1	Off
Pitot Heat	Off
Beacon	Off
Landing Light	Off
Taxi Light	Off
Nav Lights	Off
Strobes	Off
Cabin Pwr 12 Switch	Off
Com 1 and Nav 1	Tune to Active Freq
Com 1 Mic and Nav 1	Select
Avionics BUS 2	Off (Keep On if in Clouds)
Land	As Soon as Practical

LOW VOLTS ANNUNCIATOR BELOW 1000 RPM

Throttle	1000 RPM
Low Volts Annunciator	Check Off

IF LOW VOLTS ANNUNCIATOR REMAINS ON

Inspection required by maintenance before next flight

LOW VOLTS ANNUNCIATOR AT HIGHER RPM

Master (ALT only)	
ALT FIELD Circuit Breaker	Check In
Master (ALT and BAT)	On
Low Volts Annunciator	Check Off
M Bus Volts	Check 27.5 V (min)
M Batt Amps	Check Charging (+)

IF LOW VOLTS ANNUNCIATOR REMAINS ON

Master (ALT Only)	Off
Electrical Load	Reduce Immediately as follows
Avionics BUS 1	Off
Pitot Heat	Off
Beacon	Off
Landing Light	Off
Taxi Light	Off
Nav Lights	Off
Strobes	Off
Cabin Pwr 12 Switch	Off
Com 1 and Nav 1	Tune to Active Freq
Com 1 Mic and Nav 1	Select
Avionics BUS 2	Off (Keep On if in Clouds)
Land	As Soon as Practical

ADC / AHRS FAILURE

RED X ON INSTRUMENT

ADC/AHRS Circuit Breaker	Check In (ESS & Main Bus)
If Open	Reset (Once)
Use Standby Instruments as appropriate	

AUTOPILOT OR ELECTRIC TRIM FAILURE

AP OR PTRM ANNUNCIATORS

Control Wheel	Grasp Firmly
A/P Trim Disc Button	Press & Hold
Elevator Trim Control	Adjust Manually
Auto Pilot Circuit Breaker	Open (pull out)
A/P Trim Disc Button	Release

NOTICE:

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