

[FLIGHT PLAN DESIGNATION IS "**RV12**", Comm equipment is "**V**", and Surveillance is "**EB2**"]

EMERGENCY CONTACTS

The following are Chesapeake Sport Pilot's emergency contact telephone numbers. We ask that you call the numbers in the order listed. In addition, please continue down the list until you reach someone. Please do not assume a voicemail left on one of the numbers will be immediately received.

Helen Woods	(240) 620-8926
CSP Maintenance	(410) 490-0802
Hannah Lagno	(410) 490-0354
Dan Wroe	(410) 991-5514
Bay Bridge Airpor	t(410) 643-4364
Linda Steiner	(410) 212-2951
Ted Bryant (CGE)	(443) 521-4281

INFO:

Fuel Type: Swift 94 Mogas 91 octane or higher (preferred) or Avgas 100LL

One tank, 19.8 gal Total (19.8 gal useable in shallow climbs, level flight, and descents; 15.8 useable in climbs)

Oil Type–AeroShell Oil Sport Plus 4 (Do not use aviation oil) Quantity – 3.2 qts

Coolant – 50/50 glycol/distilled water mix

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V-Speeds (knots) and PERFORMANCE:

- Vr 50-55
- Vx 60, flaps 1st DETENT
- Vy 75

Best Glide – 63 knots

Vne – 136

Vno - 108

- Va- 90
- Vfe 82
- Vs1- 45
- Vso 41

Max Cross wind - 11 knots

Max Total wind - 30 knots

Maneuvers:

Aerobatic maneuvers and spins prohibited.

	Weig	ht and Ba	lance
	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
Empty	769.0		62397.5
Pilot/Passeng	ler	78.85	
Fuel (6 lbs/ga		110.28	
Bag (50 lb ma		110.81	

1320 lb max

Tire Pressure

Nose: 22 psi Mains: 29 psi

Dual Instruction/Flight Briefing

Pilot in Command

During flights with two rated pilots, the pilots will decide before the flight as to which pilot will act as Pilot In Command for the flight.

Passenger Briefing

An appropriate passenger briefing will be given before the flight that covers the items in the STARTING area of the checklist.

Positive Transfer of Controls

During each flight, one person will be controlling the plane at all times. It is critical to know who this person is at all times. Use a three-way call back such as:

Person 1: "You have the controls" Person 2: "I have the controls" Person 1: "You have the controls"

Aborted Takeoff

If we should lose directional control of the plane, or if there is a problem with the engine, or if anything else unusual should happen, we will abort the takeoff roll by simultaneously retarding the throttle and applying full brakes.

In-Flight Emergency

During an in-flight emergency, the instructor will take control of the aircraft. Unless specified otherwise, the student will set the radio to 121.5 and the transponder to 7700. The student will also secure any loose equipment in the cockpit and his seatbelt prior to landing.

Engine Failure Immediately After Takeoff

If we should we lose the engine immediately after take-off the instructor will pitch DOWN for 63 knots and make shallow turns right or left.

The student should (as directed by the instructor): Fuel Shutoff Valve: Off Ignition: Off Flaps: As directed Master Switch: Off when airspeed is no longer required Off runway 29 - prepare for ditching Do NOT attempt to return to runway unless you have successfully practiced return to landing

Ditching

If we should have to ditch, instructor will fly the plane. Student will set radio and transponder 121.5 and 7700, remove his glasses, and tighten his seatbelt. Be prepared to open the canopy just prior to hitting the water!

Line Up and Wait (formerly Position and Hold)

Holding in the takeoff position on the runway at an uncontrolled field is not authorized.

Go-Arounds

A go around will be initiated if the approach does not look stable, the landing is in any way questionable, or the plane will land beyond the first 1/3 of the runway.

Propeller Safety

At no time will anyone enter or exit the aircraft while the engine is running. Before starting the engine, the student will call "**CLEAR**" and both the student and instructor will look for people in the way. The key will be removed from the starter after the flight and during the pre-starting checks if people should approach the plane.

USEFUL FREQUENCIES:

Emergency	121.5
Flight Service ("Leesburg Radio")	122.2
"Potomac Approach" SFRA	132.775
"Potomac Approach" (Flight Follow)	124.55/119.7

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PREFLIGHT INSPECTION:

Preparation: remove tie down ropes, other plane protection items/covers

□ Roll plane, back and forth to check all tires **CAUTION:**

Once unlatched, the canopy may be damaged if a strong tailwind suddenly forces it fully open.

Canopy – Open, Check Glass for condition and cleanliness

Cabin and Fuel Check:

Cabin	and i dei oneck.	
	Spar Pins:	Check
	Fuel Gauge:	Check
	Fuel Tank Cap:	Secure
	AROW (Airworthiness/Registration	n/
	Operating limits/Weight and balance	
	Control Lock	Remove
	Flaps	2 nd Detent
	Flight Controls:	Check
Ch	neck for freedom of movement and p	proper
dir	ection	•
	Flaps	Up
	Rear Bulkhead	Check
	Ignition A and B	Off
	Master Switch:	On
Note:	Electric Fuel Pump runs when Ma	aster Switch
On.	-	
	Hobbs Meter:	Record
	Trim:	Check
	Lights:	Check
	Avionics Switch:	On
	Stall Warning Vane: Actuate, liste headset	en for tone in
Note:	Comm radio must be on to hear s	stall warning
tone.		

Avionics Switch:	Off
Master Switch:	Off

Left Wing

	3	
	Leading Edge and Wing Skin:	Check
	Tie-down Rope:	Remove
	Strobe, Nav Light	Check
	Flaperon(freedom of movement, 3	hinge bolts)
	Check	
	Skin Around Gear Attach Points	Check
	Tire (25 psi, condition)	Check
	Wheel (Axle nut cotter nut)	Check
	Brake (pad, disk condition, leaks)	Check
	Chocks	Remove
ft F	uselade.	

Left Fuselage:

Flaperon Actuator	Connected
Static Port	Unobstructed

□ Antennas: Check

Empennage:

Stabilator and Trim Tab:	Check for
damage, freedom of movement	
Vertical Stabilizer and Rudder:	Check for
damage, freedom of movement	

□ Tail Tie-down Rope: Remove

Right Fuselage:

Static Port	Unobstructed
Fuel Cap	Secure
Flaperon Actuator	Connected

Right Wing:

5	3	
	Tire (25 psi, condition)	Check
	Wheel (Axle nut cotter nut)	Check
	Brake (pad, disk condition, leaks)	Check
	Chocks	Remove
	Skin Around Gear Attach Points	Chec
	Flaperon (freedom of movement/3	hinge bolts
		Check
	Strobe, Nav Light	Check
	Leading Edge and Wing Skin:	Check
	Tie-down Rope:	Remove

Nose:

□ Fuel Gascolator Check Note: If water is found in fuel, run fuel pump for another 2 minutes and sump again.

Check

Remove

Check

Oil Quantity

Coolant Level

- Check
- Tire (22 psi, condition) Check Check
- Wheel
- Chocks \square
- Cowling (condition and screws) Check
- Air Inlets (3)
 - Unobstructed
- **Prop and Spinner**
- Pitot Tube
 - Unobstructed

STARTING:

- □ Safety belts:. ADJUST/TIGHT
- Passenger Briefing
 - Seat Belt use
 - Canopy Release
 - Emergency Equipment
 - Motion Sickness
 - Sterile Cockpit
 - Propeller Safety
 - Cockpit Resource Management **Briefing (CRM)**

ON

ON

Closed

- LSA Certification
- □ Fuel Shutoff Valve ON (push down)
- Master Switch:
- Set on Dynon Fuel quantity: NORMAL
 - Fuel Pressure
- □ Nav / Strobes

Cold Start:

 \square

- □ Throttle
- □ Choke
- Pull ON

Warm Start:

1/8 inch Open Throttle \square Choke \square OFF "CLEAR" Propeller area: Canopy Closed and Locked Dynon: **Closed indication** Brakes HOI D Ignition A and B ON \square Ignition Switch: START <2500 RPM Engine RPM: Oil pressure: Check 12 psi within \square 10 seconds (shutdown) OFF Choke **Check Charging** □ Ammeter Note: Limit Starter Operation to 10 seconds duration with 2 minutes cooling off period

between start attempts.

- PRE-TAXI:
 - ON Avionics Switch ON Autopilot \square □ Transponder (Check Code) ALT \square AWOS / ASOS / ATIS: OBTAIN □ Altimeter: SET □ GPS: SET □ Radio: Check WITH UNICOM
 - Briefing: Brief self or passenger taxiways that will be used to reach the runway

TAXI:

 \square

Brakes: Check Flight Instruments Verify Operation

RUNUP:

- □ Brakes Flight Controls
- □ Trim
- Fuel Shutoff Valve
- Stabilator
- Oil Temp
- Throttle:
- Test ignition systems: \square

>= 122 deg F. 4000 RPM A - Off. then ON. B - Off, then ON

Free and Correct

ON (push down)

Hold Stick Back

HOI D

Neutral

Maximum drop: 300 RPM, Max difference: 115 RPM

- Engine instruments:
 - Oil pressure: 29-73 psi •
 - Oil temperature: 122 - 230 °F ٠
 - Fuel Pressure 2.2-7.2 psi •
 - Voltmeter Check ٠
 - **Positive Charge** Ammeter: •
 - Cylinder Head Temp.150-230 °F IDLE
- Throttle:

Throttle: \square Seat belts:

(check for roughness) 2000 RPM FASTENED

1st Detent-Short Field

- BEFORE TAKEOFF
 - □ Fuel Shutoff Valve ON (push down) **UP-Normal** □ Flaps:
 - Takeoff
 - Magnetos
 - Trim:
 - □ Fuel

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- Transponder:
- Canopy:

Takeoff Brief: \square

□ Pattern:

ON (Both A and B) Neutral Adequate for flight ALT CLOSED and Locked. Closed on Dynon Complete Check

Radio:

□ Landing Light: ON or PULSE

□ Briefing: Brief self or passenger loss of engine contingencies (see front of checklist)

TAKE OFF:

 \square

- □ Taxi to line-up **Check Heading Indicator**
 - **RELEASE**. heels on floor Brakes

FULL

CALL

- □ Throttle[.]
- □ Engine instruments: Check RPM, Oil Press. Airspeed indicator alive / RPM up - or abort
- □ Vr (Rotation speed):50-55 knots

NOTE

Rotate to takeoff attitude and accelerate to a climb speed of 75 knots with Flaps UP. (60 knots with flaps 1st DETENT)

CLIMB:

- □ Flaps: **RETRACT** safely airborne
- □ Establish Vy clean: 75 knots
- Cruise climb: 85 knots NOTE

Raise flaps when safely airborne and at a safe altitude and air speed (or at an altitude and airspeed specified by your instructor.)

CRUISE:

- □ Power: SET (5500 RPM max.)
- Engine Instruments: Check

PRE-MANEUVERS:

- □ Clearing Turns
- □ Select emergency landing area
- Va 90 knots \square

DESCENT:

□ Power: 3000 RPM minimum,

Tight

ON

- CHT and Oil Temp in Green Arc
- □ Landing Light: ON

LANDING:

- Safety belts
- Landing Light:
- □ Brakes: Check Pressure
- □ Ignition Switches BOTH ON
- □ Flaps: AS DESIRED
- □ Approach Speed: 60 knots
- (Short Field: Flaps, 2nd Detent, 55 knots)

GO-AROUND:

- □ Throttle: FULL POWER□ Pitch: Climb Attitude
- \Box Flaps: Retract to 1st Detent
- \Box Airspeed: 60 knots
- □ Safely Climbing Flaps: Up,
- □ Climb Speed 75 knots
- $\hfill\square$ Stay to non-pattern side of runway

AFTER LANDING:

- □ Clear Runway: RADIO CALL
- □ Landing Light: OFF
- □ Flaps: □ Trim:
- UP Neutral

PARKING:

CAUTION:

Once unlatched, the canopy may be damaged if a strong tailwind suddenly forces it fully open.

Flaps:	UP
All Lights:	OFF
Hobbs Meter:	Note Time
Avionics Master:	OFF
Autopilot:	OFF
Ignition A and B Switches:	OFF
Master Switch:	OFF
Trash -	Remove
Chocks :	INSTALL
Pitot tube cover:	INSTALL
Control lock:	INSTALL
Aircraft:	TIED DOWN
Checklist in airplane	
Canopy:	CLOSED/Locked

 \Box Key Returned to Lockbox.

CLOSED PATTERN OPS CHECK LISTS

HOLD SHORT LINE

- □ Engine Instruments: CHECK
- Fuel Quantity CHECK □ Fuel Valve: ON □ Flaps: As Required □ Trim: Centered CLOSED/DYNON □ Canopy □ Takeoff Brief: REVIEW □ Pattern: CHECK □ Radio: CALL

CLIMB:

Rotate	50-55 KIAS
Accelerate	75 KIAS
Flaps:	RETRACT as necessary
Establish Vy clean:	75 KIAS
Trim:	ADJUST

LANDING:

Safety belts	Tight
Landing Light:	ON
Brakes:	Check Pressure
Ignition Switches	BOTH ON
Flaps:	AS DESIRED
Approach Speed:	60 knots
(Short Field: Flaps,	2 nd Detent, 55 knots)
	Landing Light: Brakes: Ignition Switches Flaps: Approach Speed:

AFTER LANDING:

Clear Runway:	RADIO CALL
Flaps:	UP
Trim:	CENTERED

EMERGENCY PROCEDURES:

ENGINE FIRE DURING START

- □ Continue Cranking with Starter
- □ Choke PUSH OFF
- □ Throttle FULL OPEN

If fire extinguished, shut down and inspect.

If Fire Persists:

- □ Fuel Shutoff Valve: OFF (Pull Up)
- Ignition A and B: OFF
- OFF □ Master Switch:
- Evacuate Aircraft
- □ If available, direct fire extinguisher through air outlet tunnel at the bottom of the cowl

ENGINE FAILURE DURING TAKEOFF RUN

- □ Throttle:
- IDLE APPLY AS
- □ Brakes: NEEDED
- □ Ignition Switches: OFF OFF
- Master Switch:
- □ Fuel Shutoff Valve: OFF (Pull Up)

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

- □ NOSE DOWN/Pitch for best glide 63 knots
- □ Find a suitable place on the ground to land safely. The landing should be planned straight ahead with only small changes in direction not exceeding 45° to the left or 45° to the right
- □ Flaps:
- □ Ignition Switches: OFF
- □ Fuel Shutoff Valve: OFF (Pull Up)
- Master switch: OFF when airspeed not

required

AS REQUIRED

ENGINE FAILURE IN FLIGHT

- □ Airspeed 63 knots, flaps up
- □ Best Field Select
- □ Fuel Shutoff Valve ON (push down)
- □ Ignition A and B Both ON
- FULL OPEN/PUSH □ Choke

IN-FLIGHT ENGINE RESTART -IF TIME PERMITS-

- \square Master:
- ON
- Mid Position □ Throttle[.]
- If propeller is stopped, Engage Starter
- □ If the restart fails: Procedure for a Forced Landing Without Engine Power or Ditching: APPLY
- □ If engine starts: Land as soon as possible.

FORCED LANDING WITHOUT ENGINE POWER

- □ Airspeed: 63 knots, flaps up
- Locate suitable terrain, land into wind \square
- □ Radio / Transponder: 121.5 / 7700
- □ ELT: Activate
- TIGHTEN \Box Safety belts:
- □ Fuel Shutoff Valve: OFF (Pull Up)
- Ignition Switches: OFF \square
- Flaps: AS REQUIRED
- Master switch: OFF when airspeed not required

DITCHING

- □ Airspeed: 63 knots, flaps up
- \Box Land into winds if winds are high;
- □ Land parallel to swells in calm winds
- Radio/Transponder: 121.5 / 7700 Activate
- □ ELT:
 - Safety belts: TIGHTEN
- Fuel Shutoff Valve: OFF (Pull Up)
- Ianition Switches: OFF
- □ Flaps:
- Master switch: OFF when \square airspeed not

required

UP

- Canopy touchdown
- □ Ditch with nose high attitude

ENGINE FIRE IN-FLIGHT

- □ Cabin heat/air vents
- □ Fuel Shutoff Valve:
- Ignition Switches:
- □ Throttle:

OFF (Pull Up) BOTH OFF FULL IN until the

OFF/CLOSED

UNLATCH before

engine stops

running

Employ slip to keep flames away from firewall Do not attempt an in-flight restart

□ Procedure for a Forced Landing Without Engine Power: APPLY

ELECTRICAL FIRE IN CABIN IN FLIGHT

- □ Master Switch: OFF
- OPFN Cabin Air Vents: \square
- □ 30 amp Main Bus Fuse PULL
- □ Fire Extinguisher USE
- □ Emergency descent and Procedure for a Power-On Forced Landing.
- AS REQUIRED □ Flaps:

POWER-ON FORCED LANDING

- □ Descent[•] \Box Airspeed:
- \Box Landing area:
- □ Radio / Transponder: 7700
- □ ELT:
- □ Safety belts:

Landing assured:

- □ Flaps:
- □ Fuel Shutoff Valve:
- □ Ignition Switches:
- \square Master switch: airspeed

FSTABLISH 63 knots

SELECT

121.5/

Activate TIGHTEN

AS REQUIRED OFF (Pull Up) OFF

OFF when

not required

LOW OIL PRESSURE

- \Box Oil temperature: Check
- If oil temperature is stable \square

within the green arc: LAND as soon as possible

 \Box If oil temp. increasing: LAND as soon as possible and be alert for impending engine failure

RUNAWAY TRIM

 \square

- Stabilator \square
- Hold Aircraft Attitude
- Trim Fuse □ Autopilot
- Pull
- OFF
- □ Airspeed
- Reduce or increase to minimize control forces

As soon as practical

Land

LANDING WITH A FLAT TIRE

- □ Apply rudder and brakes to stay on runway
- □ Make radio call to UNICOM and inbound traffic about closed runway
- □ Push plane off runway

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GENERATOR FAILURE/LOW VOLTAGE

- Indicated by Ammeter Discharge and Volts less than 12.
- □ Non-Essential Electrical Equip. OFF
- Land as soon as practical since battery and EFIS internal battery provide only a limited time of usefulness.

Note: Electric Fuel Pump is powered by the battery. Battery can be conserved by pulling the fuel pump fuse.

GENERATOR OVERVOLTAGE

Indicated by voltage greater than 15 volts.

- □ 30-amp fuse PULL
- □ Non-Essential Electrical Equip. OFF
- □ Land as soon as practical since battery and EFIS internal battery provide only a limited time of usefulness.

Note: Electric Fuel Pump is powered by the battery. Battery can be conserved by pulling the fuel pump fuse.

BRAKE FAILURE DURING TAXI

Failure of one or both brakes during taxi eliminates any control of the airplane, either steering or stopping.

□ Ignition Switches OFF

BRAKE FAILURE DURING FLIGHT

Failure of one or both brakes during flight will require planning to execute a safe landing. Find the longest, widest runway available. In light wind conditions, plan to land on the side of the runway opposite the functioning brake. (Right brake good, land on the left side of the runway.)

If a crosswind exists, the airplane will tend to weathervane into the wind. If possible, choose a runway that will allow the most control during the rollout. (Right brake good, choose a runway with a left crosswind.)

On the landing rollout, the rudder will provide adequate directional control down to approximately 15 knots.

Immediately after touchdown:

OFF

UNINTENTIONAL FLIGHT INTO ICING CONDITIONS

- Get away from icing conditions by changing altitude or direction of flight in order to reach an area with warmer outside temperature.
- □ Increase rpm to avoid ice formation on propeller blades.
- $\hfill\square$ Cabin heat: ON
- $\hfill\square$ Land as soon as practical
- □ Do NOT use flaps

WARNING

In case of ice formation on wing leading edge, stall speed may increase. NOTE

It may be necessary to slip the plane on landing to see out.

RECOVERY FROM UNINTENTIONAL SPIN

- \Box Reduce the power to idle
- □ Stabilator Slightly Forward of Neutral
- □ Ailerons Neutral
- Rudder Full Deflection Opposite direction of Spin Rotation
- □ As rotation stops, neutralize rudder, and make a smooth recovery from the resulting dive.

LOST PROCEDURES

- Climb and Circle to better see prominent landmarks
- $\hfill\square$ Conserve fuel
- □ Communicate with ATC (121.5)

Comply with ATC instructions