Revision: 4.1

Appendix 1 – SLSA Flight Test Card Date: 6/9/17

DATE:	SERIAL #N				
BALLAST WEIGHT:					
PILOT:	PILOT WEIGHT:				
TIME END::	FUEL END: (gage) (totalizer)				
 TIME BEGIN::	FUEL BEGIN: (gage) (totalizer)				
OAT on ground END:	BARO PRESSURE END:				
_	BARO PRESSURE BEGIN:				
LOCATION:					
SURFACE WIND, END:@					
SURFACE WIND, BEGIN:@					
# LANDINGS:					
PRE-FLIGHT PREPARATION:					
Aircraft load-out: Pilot plus 10 to 14 gal	lons fuel to obtain 1050 lbs +/- 5%				
If ballast is needed, add ballast to co-pi	lot seat. Note ballast added lb				
FLIGHT PROCEDURE: Zero flap take-off and accelerate to 75 kt IAS					
Climb at 75 kts. IAS until >3,000 ft AGL while remaining within gliding distance of a runway.					
Engine Indications:					
☐ Engine RPM 5100 +/- 100 RPM					
While remaining within a safe distance of a runway, level-off and set throttle for 4500 to 5000 rpm and trim for hands-off flight Systems Check-out:					
Check and Note EFIS indications and/or discrepancies. (pay close attention to oil and fuel pressure during entire flight from takeoff to landing)					
Check for regulator function system □	n charging				

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Appendix 1 – SLSA Flight Test Card Date: 6/9/17

FLIGHT PROCEDURE (continued):				
Cabin Heat: Door shuts and does not leak when closed (heat off)				
Heat on provides sufficient heat output				
EFIS Indications:				
Airspeed Altitude				
☐ Slip/Skid indicator - ball moves opposite direction of rudder input				
☐ Attitude				
Outside Air Temperature				
ADS-B IN (verify by pulling up weather in flight)				
Avionics:				
Comm. radio functionality (ask for a radio check)				
GPS functionality				
☐ Intercom (verify side tone)				
☐ Transponder functions AUTO, GROUND, ALT				
Autopilot check (LVL, Heading, Alt Hold, VS, AP Disconnect)				
Autopilot Control Head check (if installed) VS, Heading, LVL, altitude capture, GPS tracking.				
Leave AP in advanced mode if an Autopilot Control Head is installed.				
Initial Flying Qualities Evaluation:				
Control Response appropriate?				
Pitch				
☐ Yaw				
Control Forces appropriate?				
Pitch				
Roll				
□ Yaw				
Trim Evaluation:				
Pitch -				
Sufficient Authority				
☐ Motor speed acceptable during all phases of flight (check at 65 kts and 110 kts)				
Yaw -				
Slip/skid ball centered during cruise with feet off rudder pedals				
Roll -				
No tendency to roll with slip/skid ball centered (hold rudder if/as required)				
and hand off stick. 1 deg/sec max5 deg/sec or less is ideal				
Flap extension/retraction: close throttle and trim for level flight (or slight climb) at 65 kt				
Clean to ½ flaps -				
Note amount of degrees roll change. 1 deg/sec max5 deg/sec or less is ideal				
Note any controllability problems				

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Appendix 1 – SLSA Flight Test Card Date: 6/9/17

FLIGHT PROCEDURE (continued):
Flap extension/retraction (continued): ½ flaps to full flaps -
Note amount of degrees roll change. 1 deg/sec max5deg / sec or less is ideal
Note any controllability problems
Slow Flight:
Flaps up at 59 kt (1.3 Vs) Power set to maintain level flight or slight climb RPM
☐ Straight & level
☐ 30° bank turn left
□ 30° bank turn right
Flaps ½ at 56 kt (1.3 Vs1)
Power set to maintain level flight or slight climb RPM
Straight & level
30° bank turn left30° bank turn right
30° bank turn right
Flaps full at 54 kt (1.3 Vs0)
Power set to maintain level flight or slight climb RPM
Straight & level 30° bank turn left
□ 30° bank turn right
Slow Flight Flying Qualities Evaluation:
Control Response appropriate? □ Pitch
□ Roll
□ Yaw
Control Forces appropriate?
Pitch
□ Roll
□ Yaw
Stalls:
Power Off w/immediate recovery (wings level & ball centered; no deep stalls or aggravated stalls)
Flaps up (Vs). Buzzer must activate 3-5 kts above stall break.
Note indicator reading when warning buzzer activates
Note indicator reading at onset of buffeting Note indicator reading at break
Note rolling tendency (direction and amount in degrees)
5

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Appendix 1 – SLSA Flight Test Card

FLIGHT PROCEDURE (continued):				
Stalls (continued): Flaps ½ (Vs1)				
□ Note indicator reading when warning buzzer activates				
☐ Note indicator reading at onset of buffeting				
Note indicator reading at break				
Note rolling tendency (direction and amount in degrees)				
Flaps full (Vs0)				
Note indicator reading when warning buzzer activates				
Note indicator reading at onset of buffeting				
□ Note indicator reading at break□ Note rolling tendency (direction and amount in degrees)				
Note foiling tendency (direction and amount in degrees)				
Retract Flaps. Descend to allow speed to reach 136 kt TAS perform easy maneuvers Verify no unusual flying qualities or other unexpected behavior.				
Landing: Power-off approach at minimum 55 kts with flaps as required for glide path control. Verify proper operation of brakes and verify proper ground handling characteristics Before shut-down - throttle to idle and verify RPM is within range called-out in Section G6 Download EFIS data, use to calculate T/O distance, climb rate and archive file Intercom check both sides (check with second person on ground) Check Co-Pilot Push to Talk Function				
Engine Power Output:				
Unusual vibrations, noises, etc				
☐ Fuel and/or exhaust smell in cockpit				
Section Appendix 1 Flight Test completed by:				
Printed Name/Title				
Signature Date				
Aircraft Serial Number				
Type of authorization issued to conduct the flight testing.				
(Example: FAA 8130-7 Special Airworthiness Certificate)				

Signature

Aircraft Serial Number

POST FLIGHT ACTIONS: To be completed by the test pilot: ■ Adjust trim on rudder required; YES __NO__ ☐ Squeeze light wing's aileron trailing edge required; YES__NO_____ Adjust stall warning vane required; YES_NO_____ Adjust idle speed to be within range called-out in Section G6 required; YES NO To be completed by the ground crew: Remove cowl and inspect engine _____ Any engine issues (leaks, high temps, etc.) YES __NO____ Any airframe system issues; YES___NO_____ □ Other Section Appendix 1 Post Flight completed by: Printed Name/Title

Date: 6/9/17

PAP A1-5 Van's Aircraft Inc.

Date

Appendix 1 – SLSA Flight Test Card

DISCREPANCY & RESOLUTION FLIGHT #					
DATE:					
BALLAST WEIGHT:					
PILOT:	PILOT WEIGHT:				
TIME END::	FUEL END: (gage) (totalizer)				
TIME BEGIN::	FUEL BEGIN: _	(totalizer)			
OAT on ground END:	BARO PRESSU				
OAT on ground BEGIN:	BARO PRESSU	IRE BEGIN:			
LOCATION:					
SURFACE WIND, END:@					
SURFACE WIND, BEGIN:@					
# LANDINGS:					
					
Section Appendix 1 Flight Resolution completed by:					
Transfer and the second terms of the second te					
Printed Name/Title					
34					
Signature		Date			
g. 181810		_ 3.0			
Aircraft Serial Number					