



Chuck Hall Aviation - Ramona FTC Airplane Hangar is D6	760-789-8178
Ramona ASOS	760-789-7699
Ramona ATIS	132.025
Ramona CTAF	119.875
Ramona Ground	121.65
Ramona Tower Hours: 08:00-20:00	119.875
Ramona Unicom	122.95
Ramona Practice Area	122.75
OWNER: www.Fly4Fun.us The Gudorf Group, Inc. eMail: Greg@Gudorf.net	858-432-8786

NOTICE

This aircraft conforms to ASTM consensus standards of airworthiness developed and maintained by the aviation community under ASTM Technical Committee F37. (**Checklist v.04-20-2023**)

PASSENGER NOTICE

This aircraft was manufactured in accordance with Light Sport Aircraft airworthiness standards (ASTM). Does not conform to standard category airworthiness requirements.

LIMITATIONS

- This Special Light Sport Aircraft (SLSA) is approved only for Day/Night VFR flights under no icing conditions and only if the pilot has the proper certification for such flights.
- Maximum crosswind component is 14 KTS
- Aerobatics and intentional spins are prohibited!

N328AM AIRSPEEDs (IAS)

VSO	Stall Speed MTOW & Full Flaps	31 MPH
VS	Stall Speed MTOW & Flaps Up	37 MPH
VFE	Maximum Flaps Extended Speed	91 MPH
VA	Maneuvering at Gross Weight	74 MPH
VRA	Rough Air MAX Gross & Min Weight	129 MPH
VNE	Never Exceed Speed	149 MPH
VX	Best Angle of Climb	62 MPH
VY	Best Rate of Climb	75 MPH
VG	Best Glide	68 MPH

ENGINE SPEED

Full Power (Limited 5 Minutes Maximum)	5800 RPM
Maximum Revolutions (No Time Limit)	5500 RPM
Normal Idle	1850-2000 RPM
Warm Up Idle	2000-2500 RPM
Minimum Revolutions at Idle	1850 RPM

FUEL

Total usable fuel (15 GAL per tank)	30.0 GAL
Non-usable Fuel	0.13 GAL
NOTE: When a gauge reads ½ tank has only	5.55 GAL

MAX TAKEOFF WEIGHT

Empty Weight as Equipped	725 lbs
POTENTIAL PAYLOAD	595 lbs
Fuel at 30 GAL:- Payload (People & Baggage)	415 lbs
Fuel at 20 GAL:- Payload (People & Baggage)	475 lbs
Maximum Baggage	66 lbs

Aeroprakt VIXXEN N328AM PREFLIGHT: Pilots must inspect the general condition of the airplane during its preflight check. The airplane must have no damage or maladjustments that may be critical for the flight safety. The cockpit glass, propeller, wing and empennage must be clean of rainwater, snow, frost, ice, and dirt as they impair visibility and aerodynamics and increase weight. The preflight check must be performed in accordance the checklist and in the following sequence:

OVERALL AIRPLANE

- | | |
|--------------------------------------|-------------------|
| 1) Cover | REMOVE & STOW |
| 2) Door Locks | UNLOCK BOTH DOORS |
| 3) Tailpost | REMOVE & STOW |
| 4) Rainwater, Snow, Frost, Ice, Dirt | NONE |
| 5) Rigging | CHECK Visually |
| 6) External Damage | NONE |

COCKPIT INTERIOR Preliminary

- | | |
|---|---------------------------------|
| 7) Cabin | CLEAN, INTACT, NO LOOSE OBJECTS |
| 8) Seats | INTACT, ADJUSTED, SECURE |
| 9) Seatbelts | INTACT |
| 10) Flight Plan, Weight & Balance | PERFORMED |
| 11) Required Docs (AROW) | ONBOARD |
| 12) Baggage Container | NOTE CONTENTS |
| 13) Battery & Cables | SECURE, CONDITION OK |
| 14) Starter Key | REMOVED |
| 15) All Electrical Switches | OFF |
| 16) Flight Instruments | INTACT |
| 17) Control Lock | REMOVE & STOW |
| 18) Movement of Controls | Check FREE & FULL |
| 19) Flaps | DEPLOY & RETRACT |
| 20) Flaperon Control Linkage | INTACT & SECURE |
| 21) Yokes/Stick, Rudder Pedals,
Elevator & Trim Tab Lever | NEUTRAL |
| 22) Flaps | RETRACTED |
| 23) Control System Linkages
(inside the rear fuselage) | CHECK Visually |
| 24) Parking Brake | ON |
| 25) Battery Switch (under pilot's seat) | ON |
| 26) BackUp Battery Switch | ON |
| 27) Starter Key Master | ON |
| 28) Record Fuel Quantity | Recorded |
| 29) Garmin: Select 'Engine' Page | Performed |
| 30) Record Total time | Performed |
| 31) Check Navigation Lights,
Strobe Lights & Landing Light | Performed |
| 32) Starter Key Master | OFF |
| 33) BackUp Battery Switch | OFF |
| 34) Battery Switch (under pilot's seat) | OFF |

LANDING GEAR

- | | |
|----------------------------|------------------------|
| 1) Wheel Fairings | CLEAN, INTACT & SECURE |
| 2) Wheel Pressure | OK |
| 3) Tires | NO CRACKS, WEAR OK |
| 4) Wheel Brakes | CLEAN, INTACT & SECURE |
| 5) Braking Fluid | NO LEAKS |
| 6) Nose & Main Legs | NO CRACK & INTACT |
| 7) Nose Leg Shock Absorber | INTACT |

RIGHT WING

- | | |
|--|---|
| 8) Wing & Strut Surface | CLEAN & INTACT |
| 9) Wing & Strut | INTACT, SECURE
(Attachment fittings & bolts) |
| 10) Wing Fuel Tank Cap | IN PLACE & SECURE |
| 11) Fuel Tank Vent Outlet | CLEAN & INTACT |
| 12) Fuel Leaks | NONE |
| 13) Wing Tip & Navigation/Strobe Light | INTACT |
| 14) Flaperon | CLEAN & INTACT |
| 15) Flaperon Control Linkage | INTACT & SECURE |
| 16) Flaperon Hinge Brackets | INTACT, BOLTS
SECURE, HINGES GREASED |
| 17) Tie-Down & Wheel Chock | Remove & Stow |

RIGHT SIDE OF FUSELAGE

- | | |
|------------------------|--------------------------|
| 18) Fuselage Surface | CLEAN & INTACT |
| 19) Cockpit Glass | CLEAN, INTACT, NO CRACKS |
| 20) Door Hinges & Lock | INTACT |

EMPENNAGE

- | | |
|--|--|
| 1) Empennage Surface | CLEAN & INTACT |
| 2) Horizontal Stabilizer | INTACT & SECURE
(Attachment Fittings & Bolts) |
| 3) Rudder, Elevator & Trim Tab | CLEAN & INTACT |
| 4) Rudder, Elevator & Trim Tab
Hinge Brackets | INTACT, SECURE & GREASED |
| 5) Rudder, Elevator & Trim Tab
Control Linkage Attachment | INTACT & SECURE |

LEFT SIDE OF FUSELAGE

- | | |
|-----------------------|--------------------------|
| 6) Fuselage Surface | CLEAN & INTACT |
| 7) Cockpit Glass: | CLEAN, INTACT, NO CRACKS |
| 8) Door Hinges & Lock | INTACT |

LEFT WING

- | | |
|--|---|
| 9) Flaperon | CLEAN & INTACT |
| 10) Flaperon Control Linkage | INTACT & SECURE |
| 11) Flaperon Hinge Brackets | INTACT, BOLTS
SECURE, HINGES GREASED |
| 12) Wing Tip & Navigation/Strobe Light | INTACT |
| 13) Wing Fuel Tank Cap | IN PLACE & SECURE |
| 14) Fuel Tank Vent Outlet | CLEAN & INTACT |
| 15) Fuel Leaks | NONE |
| 16) Wing & Strut Surface | CLEAN & INTACT |
| 17) Wing & Strut | INTACT, SECURE
(Attachment fittings & bolts) |
| 18) Drain Belly Valve | Collect Fuel Sample,
then CLOSE, NO FUEL LEAKS |
| 19) Tie-Down & Wheel Chock | Remove & Stow |
| 20) Pitot/Static Probe: | COVER REMOVED
CLEAN & INTACT |

POWERPLANT

- | | |
|--------------------------------|---|
| 1) Prop & Spinner | CLEAN, INTACT & SECURE |
| 2) Top Cowling | REMOVE for Inspection
CAUTION: Place cowling on the ground
with 'nose into wind' |
| 3) Coolant & Braking Fluid | CHECK Levels |
| 4) Engine mount | NO CRACKS & INTACT
& Vibration Dampers |
| 5) Cables & Hoses | INTACT & SECURE |
| 6) Fuel, Oil, Coolant Leaks | NONE |
| 7) Exhaust System | NO CRACKS & INTACT
Attachments, Joints & Springs |
| 8) Oil Reservoir | Open & Lift Dipstick |
| 9) Verify all cockpit switches | OFF |
| 10) Verify all keys are | OUT |
| 11) Propeller: | ROTATE Until Oil Reservoir
'Gurgles' (1st Flight of Day Only)
CAUTION: ALWAYS ROTATE PROPELLER IN
THE DIRECTION OF THRUST
(COUNTERCLOCKWISE when facing prop)
TREAT PROPELLER AS LIVE
TURN PROPELLER WITH CAUTION |
| 12) Oil Level | Wait 2-3 minutes after the burp
CHECK Dipstick Reading
(½ between the marks if proper) |
| 13) Oil Reservoir | Recap & SECURE |
| 14) Top Cowling | RE-ATTACH |
| 15) Cowling Fasteners | INTACT & LOCKED |

COCKPIT INTERIOR Final

- | | |
|---|--|
| 1) Headsets | Plugged In & Ready |
| 2) Baggage Container | BAGGAGE SECURED
& CONTAINER CLOSED |
| 3) Seatbelts | Latched & ADJUSTED
(with pilots in the seats) |
| 4) Passenger Briefing (Before Engine Start) | |
| o S | Seatbelts |
| o A | Air vents |
| o F | Fire extinguisher |
| o E | Exits & Emergencies |
| o T | Talking & Traffic |
| o Y | Your Questions |
| o | ASTM Notice |

ENGINE START

- | | |
|--|----------------------------------|
| 1) Doors | CLOSED & SECURE |
| 2) Electrical Switches | OFF |
| 3) Main Battery Switch (under pilot's seat) | ON |
| 4) Integrated Battery Back Up Switch | ON |
| 5) Navigation Lights | ON |
| 6) Strobe Lights | ON |
| 7) Fuel Valves | ON |
| 8) Starter Key | INSERT & Set to ON |
| 9) Fuel Level | CHECK |
| 10) Garmin Initialization | Verify COMPLETE |
| 11) Throttle | IDLE |
| 12) Choke Lever | FULLY FORWARD |
| (cold engine only) | |
| 13) Parking Brake | ON |
| 14) Propeller - Open Door Call Out "CLEAR PROP" | |
| Verify no person or equipment in danger | |
| 15) Ignition A & B Switch | ON |
| 16) Starter Key | Set to START Until Engine Starts |
| (10 seconds maximum) | |
| 17) Throttle Idle | MINIMUM STABLE REVOLUTIONS |
| (approx 1800 RPM) | |
| 18) Choke Lever | FULLY BACK |
| (gradually, when engine runs smoothly) | |
| 19) Engine | WARM UP at 2000-2500 RPM |
| 20) Oil Pressure | GREEN within 30 seconds |
| 21) Required Electric Equipment | ON & ADJUST |
| Instruments | |
| 22) Radio Transponder | VERIFY ON |
| 23) Transponder | VERIFY APPROPRIATE CODE |
| 24) Transponder set for MODE C | VERIFY |

TAXIING

- | | |
|--------------------------------|-----------------------------|
| 25) Throttle | IDLE |
| 26) Coolant & Oil Temperature | GREEN |
| Oil Temp in Green Before Taxi | |
| 27) Parking Brake | OFF |
| 28) Hand Brakes | CHECK |
| 29) Throttle | SET FOR REQUIRED TAXI SPEED |
| 30) Yoke/Stick: | Elevator NEUTRAL |
| Ailerons | INTO Crosswind |
| 31) Brakes | Use as Required |
| Throttle to IDLE When Stopping | |
| 32) Emergency Stop | IGNITION OFF/BRAKE |

BEFORE TAKEOFF

- | | |
|------------------|-----------------------|
| 1) Parking Brake | ON |
| 2) Controls | FULL & FREE MOVEMENT |
| 3) Instruments | SET |
| 4) Altimeter | SET |
| 5) AHRS | ALIGNED |
| 6) Fuel Valves | ON |
| 7) Fuel Level | SUFFICIENT FOR FLIGHT |

AUTO PILOT

- Engage Use AP Yoke or Mode Controller
- Flight Controls Verify AP can be overpowered; pitch & roll
- Disengage Verify AP off & audio alert heard
- Flight Director Set as Appropriate or push FD to turn off
- Flight Controls Verify Free & Clear w/AP disengaged, pitch & roll
- Elevator Trim SET FOR TAKEOFF

RUNUP

- Face Into Wind Check Clear Behind
- Brakes & Parking Brake ON
- Throttle 4000 RPM
- Ignition Circuits LEFT then RIGHT Max RPM drop 300 Max RPM Difference 115
- Throttle ≤ 3500 RPM
- Oil pressure Check 29-73 PSI
- Engine Idle Throttle Full Idle Check
- Carburetor Heat Check RPM Drop with Heat ON
- Engine WARM UP at 2000-2500 RPM
- Oil Temp CHECK minimum 120°F
- Coolant Temp CHECK minimum 140°F
- Doors SECURE
- Seatbelts SECURE
- Landing light ON
- Parking Brake RELEASE
- Hand Brakes ON

SAFETY PLAN on TAKEOFF - Leaving RunUp

- Pre-takeoff roll Verbalize
- Below 1,000 feet Verbalize
- Above 1,000 feet Verbalize

NORMAL TAKEOFF

- Flaps EXTEND to Position 1
- Flight controls Elevator NEUTRAL Ailerons INTO CROSSWIND Rudder MAINTAIN CENTERLINE
- Brakes RELEASE
- Throttle Smoothly Increase to FULL POWER
- Lift the Nose Wheel At 25 MPH
- After Take-Off Accelerate ≥ 50 MPH Climb at Vy 75 MPH
- Flaps RAISE
- Landing Light OFF

PRE-LANDING CHECKS

- Fuel Valves BOTH ON
- Fuel Quantity SUFFICIENT
- Parking Brake OFF
- Landing Light ON

APPROACH

- Speed REDUCE <91 MPH Minimum 62 MPH
- Flaps EXTEND position 1 Wind >16 KTS: FLAPS UP
- Elevator Trim Tab ADJUST as Required
- Speed on Final: 62 MPH +6 MPH in Rain or Strong Turbulence
- Too high on final REDUCE RPM at Idle: SLIP
- Too Low on Final INCREASE RPM DO NOT RETRACT FLAPS if low over obstacles or close to the ground!

NORMAL LANDING

- Maintain Proper Crosswind Controls:
 - Direction: MAINTAIN RUNWAY CENTERLINE using Rudder
 - Side Drift: CORRECT by Banking Against the drift (crosswind, if any)
- Flare Start at 15 ft & Level Off at 1 ft Maintain Centerline in Flare & Level Off
- Throttle IDLE
- Touchdown At Minimum Speed Avoid Touching Ground with Tail

NORMAL LANDING - Continued

- Yoke MAINTAIN Back Pressure to Reduce Speed, then PUSH Gently to Lower Nosewheel Slowly
- Rudder pedals Set NEUTRAL before touching ground with the nose wheel
- Brakes ENGAGE as Required Avoid Braking at a High Speed or with nose wheel up! Avoid resonant vibrations of the main landing gear legs while braking!
- Flaps RETRACT
- Landing Light OFF

BALKED LANDING - GO AROUND

- Throttle Smoothly Increase to FULL POWER
- Accelerate to 62 MPH Flying Level Transition to Climb Attitude
- Climb at 62 MPH
- Flaps RETRACT SLOWLY at safe altitude

SHUTDOWN

- Throttle IDLE
- Engine Instruments GREEN
- Radio Switch OFF
- Ignition Switches OFF
- Nav & Strobe Switches Both OFF
- Master Key Switch OFF
- Garmin Note Total Time
- Main Battery Switch (pilot's seat) OFF
- BackUp Battery Switch OFF
- Control Lock INSERT
- Tie-Downs SECURE
- Wheel Chocks SET
- Pitot/Static Probe: COVER ON
- Tail Post SET
- Doors LOCK
- Weather Cover (if outside) SECURE

