

## N360GS CONDITION INSPECTION CHECKLIST

AIRCRAFT:	Wright, DH    Sonex, SN 1153
REGISTRATION:	N360GS
ENGINE TYPE:	Aerovee 2.1    SN 512
PROPELLER MODEL:	Prince P-Tip
DATE:	Feb 2023
TT AIRFRAME:	564
TT ENGINE:	564
TT PROPELLER:	

Correct All Unsatisfactory Items Prior To Flight	SAT	UNSAT	Notes
<b>General:</b>			
Check for new Manufacturer Service Bulletins and compliance	X		None since 2023 Annual
Registration/Airworthiness/Operation Limitations			
Aircraft Identification Plates Installed			
All Cockpit Placards and Labels are Installed and Legible			
Experimental & Passenger Warning Placards Installed			
Weight and Balance/Equipment List			
MGL EFIS Updated with Latest Software and Maps			
<b>Wings:</b>			
Remove Inspection Plates/Fairings			
General Inspection of the Exterior/Interior of Wing			
Popped Rivets/Cracked/Deformed Skin			
Flight Controls Proper Attachment (No Play or Slop)			
Flight Controls Properly Rigged			
Flight Control Hinges/Rod End Bearings/Bellcranks (Check for Binding and Excessive Wear)			
Corrosion (Internal Skins, Front and Rear Spars)			
Flight Control Bolts/Pins for Safety and Condition			
Lube Rod Ends, Hinges and Bushings (LPS1)			
Pitot, Static and AoA Ports and Plumbing			
Wing Attach Points (Bolt and Hole Condition, Nearby Rivets)			

Correct All Unsatisfactory Items Prior To Flight	SAT	UNSAT	Notes
<b>Fuel System:</b>			
Corrosion/Contamination/Leaks Under Panel			
Shutoff Valve			
Fuel Placard Properly Affixed and Legible			
Fuel Cap for Condition and Security			
Inspect Fuel Tank Vent System (Obstructions, Damaged Rubber Coupler, Secure Clamps)			
Fuel Lines for Chafing/Leaks/Security/Condition			
Disassemble and Clean Gascolator** & Flush System			
<b>Landing Gear:</b>			
Wheel Pants (Cracks, Damaged or Elongated Holes, Stripped Nutplates)			Not installed. W&B reflects
Gear Leg and Intersection Fairings (Cracks or Excessive Wear)			
Wheel Pant Mounting Plate (Cracks, Loose Bolts, Alignment)			Not installed. W&B reflects
Inspect Wheels for Alignment			
Wheels/Tires for Cracks, Tread Wear and Serviceability			
Wheel Bearings for Condition and Lubrication (Clean and Repack)			
Inspect Axle Weldments and Tail Wheel Pushrod for Cracks			
Inspect for Corrosion			
Inspect Brake Shoes and Replace if Required			
Inspect Brake Drums for Wear, Rust or Warping			
Inspect Brake Cable for Chaffing or Fraying			
Check Tire Pressure; Fill to 45 psi			
Inspect Tail Wheel Pushrod (Cracks, Damaged Rod Ends or Threads)			
Inspect Tail Wheel for Tire Wear, Cracks in Weldment and Travel			

<b>Correct All Unsatisfactory Items Prior To Flight</b>	<b>SAT</b>	<b>UNSAT</b>	<b>Notes</b>
<b>Fuselage:</b>			
Remove Inspection Plates and Panels			
Inspect for Popped Rivets and Cracked Skin			
Inspect Canopy Latching Mechanism			
Inspect Fire Wall for Distortion and Cracks			
Inspect Rudder Pedals for Cracks, Operation and Security			
Inspect Behind Fire Wall for Loose Wires and Chafing Lines			
Check Control Stick for Security and Freedom of Movement			
Check Flap Control Operation and Bolts for Security			
Insure the Instruments Are Properly Marked			
Inspect the Instruments, Lines, for Security			
Inspect Seats, Seat Belts/Shoulder Harness for Security and Attachment			
Upholstery (Condition, Velcro Security, Cleanliness)			
Inspect and Service ELT (Clean/Replace Batteries, Antenna Cable, Mounting Tray) ** Perform functional test on ELT per manufacturer instructions and check battery expiry date			
Clean Belly of all Oil Residue			
Inspect COMM, ELT and Transponder Antennas (Security, Corrosion, Proper Grounding).			
Inspect Cowl Mounting Hinges (Excessive Wear or Damage)			
<b>Empennage:</b>			
Remove Inspection Plates and Fairings			
Inspect Vertical Fin and Stabilizer Attach Points (Under Fairing Bolts, Tail Post Bolts, Horizontal Stab Bolts)			
Inspect Trim Tab (Cable Wire, Hinge Attachment, Free Play)			
Inspect Rudder Control Cables (Fraying, Ends, Attachment Bolts)			
Inspect and Lube Elevator Pushrod Rod End			
Inspect Fiberglass Tail Tips (Cracks, Scuffs, Security)			
Inspect Fiberglass Tail Fairing (Cracks, Stripped Screw Holes)			

<b>Correct All Unsatisfactory Items Prior To Flight</b>	<b>SAT</b>	<b>UNSAT</b>	<b>Notes</b>
<b>Engine:</b>			
Perform Periodic Maintenance per Aerovee Maintenance Manual			
Warm Engine until Oil Temp is 90-100 deg F			
Perform Compression Test #1      #2      #3      #4			
Drain and Replace Oil			
Clean Oil Filter **			
Inspect Ignition and Wiring Harness for Condition and Continuity			
Clean and Gap Spark Plugs. Replace if required			
Inspect Engine Mount/Bushings			
Inspect Engine Case, Accessory, and Mounting Bolt Torque			
Inspect Engine for Leaks at all Seals, Sensors, and Gaskets			
Inspect Cylinders for Cracks/Broken Fins/Exhaust Stains			
Inspect Engine Baffles for Cracks/Condition			
Inspect Oil Cooler, Oil Filter Adapter, and Oil Lines			
Inspect Oil Recovery Bottle and Engine Breather Line			
Inspect Carburetor, Boot, and Clamps for Condition and Security			
Inspect Intake Manifold and Seals for Security/Leaks			
Inspect Throttle & Mixture Controls for Proper Travel, Cable for Cracks or Kinks, and Overall Security			
Clean and Re-oil K&N Air Filter			
Check Exhaust Pipes/Flanges/System for Security, Attachment and Condition			
Check Cowling for Cracks and Security			
Inspect Cowling SouthCo's, Receptacles and Mounting Plates			
<b>Propeller:</b>			
Check Spinner for Condition and Security			
Inspect Prop for Cracks/Stone Damage/Nicks			
Check Prop for Delamination or Burning on Hub			
Re-torque Prop Bolts			

Correct All Unsatisfactory Items Prior To Flight	SAT	UNSAT	Notes
Check Prop Tracking (Max 1/8" off at tips)			
Rebalance Prop After Making Any Repairs			
<b>Electrical:</b>			
Inspect Battery (Security, Mount, Cables, Free of Corrosion)			
Inspect Relays (Battery Contactor, Alternator Disconnect, Starter Relay)			
Inspect Filter Capacitor (Wires, Screws, Condition of Capacitor)			
Inspect Wiring Harness Loom, Sensor Wire Bundles, and Firewall Pass Thru Points			
Inspect Rectifier/Regulator (Condition, Cable Plug, Wires, Mounts)			
Check Engine-Firewall Ground Wire			
Inspect Radios/Leads/Wires for Attachment and Security			
Inspect Fuses for Condition			
<b>Operational Inspection:</b>			
Visual Inspection of the Engine/Propeller/Cowling			
All Inspection Panels and Fairings Secure			
Proper Fuel In Tanks			
Idle Rpm/Mixture Check			
Static RPM (Run-up) Check: Idle RPM _____ WOT RPM _____ Oil Temp _____ Oil Press _____			
<b>Paperwork:</b>			
Record All Findings, Repairs and/or Work Performed and Sign off Inspection and Maintenance In Aircraft Log Books.  <i>"I certify that this aircraft has been inspected on _____ in accordance with the scope and detail of appendix D to part 43, and was found to be in a condition for safe operation.  Signed _____, Repairman # _____"</i>			

#### Revision History – Items Marked \*\*

July 2019 – Added ELT Function Test – per manufacturer.

Feb 2021 – Fuel System – Gascolator in place of Fuel Filter. Clean and Inspect Gascolator  
Engine – Oil Screen removed – only filter to check