

YEAR: 2021 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
6/11/2021				

AIRCRAFT IDENTIFICATION:

TYPE / SN. SONEX 0569

N, NUMBER 569SX

A/ F TOTAL TIME 373.2

OWNER ANDREW W HELMHOLDT

ENGINE MODEL / SN. Corvair AH569

PROPELLER MODEL / SN. SENSENICH AG2494

ENGINE TOTAL TIME 29:5

PROPELLAR TOTAL TIME 29:5

AIRCRAFT LOG ENTRY:

I CERTIFY THAT THIS AIRCRAFT _569SX_ HAS BEEN INSPECTED IN ACCORDANCE WITH AN CONDITIONAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AS OF THIS DATE

SIGNED: [REDACTED]

Inspection completed this month, 6 day, 11 year, 2021 by, ___Richard Martin___

Print name

Signed: [REDACTED]

Repairmen Certificate # [REDACTED]

YEAR: 2022 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
8-14-2022				

AIRCRAFT IDENTIFICATION:

TYPE / SN. SONEX 0569

N, NUMBER 569SX

A/ F TOTAL TIME 391.1

OWNER ANDREW W HELMHOLDT

ENGINE MODEL / SN. Corvair AH569

PROPELLER MODEL / SN. SENSENICH AG2494

ENGINE TOTAL TIME 47.5

PROPELLAR TOTAL TIME 47.5

AIRCRAFT LOG ENTRY:

I CERTIFY THAT THIS AIRCRAFT 569SX HAS BEEN INSPECTED IN ACCORDANCE WITH AN CONDITIONAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AS OF THIS DATE

SIGNED:

Inspection completed this month, 8 day, 14 year, 2022 by, Richard Martin

Print name

Signed:

Repairmen Certificate #

SONEX CONDITION INSPECTION CHECKLIST

AIRCRAFT: (TD), SN 569
 REGISTRATION: N-569SX
 ENGINE: (Corvair) S/N AH 569
 PROPELLER: (Sensenich) S/N AG2491
 (Pitch) W54SKL-54S

	(This Annual)	(Last Annual)
DATE:	8/14/2022	7/18/2021
TT AIRFRAME:	391.1 hr.'s	373.2 hr.'s
TT ENGINE:	47.5 hr.'s	29.5 hr.'s
TT PROPELLER:	47.5 hr.'s	29.5 hr.'s

Inspection Item	SAT	UNSAT	Notes See Attached
General:			
Wash airplane. Remove all oil/grease from belly and inside cowling. Remove interior upholstery. Clean interior, cockpit floor, under-seat area, and baggage area	X		
Remove Seat (Cushions and Seat Pan) and Inspection Covers	X		
Remove Wheel Pants and Gear Fairings	X		
Remove Inspection Plates and Tail Fairing	X		
Remove Inspection Plates/Fairings	X		
Registration/Airworthiness/Operation Limitations Present	X		
Aircraft Identification Plate Installed	X		
All Cockpit Placards and Labels are Installed and Legible	X		
Experimental & Passenger Warning Placards Installed	X		
Weight and Balance/Equipment List Present	X		
EFIS Updated with Latest Software, Database and Maps	X		Date of Data Base 7/14/2022
Propeller:			
Check Spinner for Condition and Security	X		
Inspect Prop for Cracks, Nicks/Stone Damage, or Delamination	X		
Check Prop Hub Area for Crushing, Water Damage, Delamination or Burning. Inspect Bolts, Bolt Holes every 200 hrs.	X		
Re-torque Prop Bolts to 17 +/-3 ft-lbs (200 +/-20 in-lbs)	X		
Check Prop Tracking (Max 1/8" off at tips)	X		Less than 1/8 inch
Rebalance Prop After Making Any Repairs	X		N/A

Inspection Item	S	U	Notes
Engine:			
Perform Periodic Maintenance per Engine Maintenance Manual	X		Per MOP Manual
Warm Engine until Oil Temp is 140 Deg. F	X		
Perform Compression Test (engine warm) #1—76/80 #2—80/80 #3—80/80 #4—80/80 #5—76/80 #6—76/80	X		
Drain and Replace Oil (4-5 qt., + ZDDP-A ((REQUIRED)))	X		Added 4.5qt's and 1/2 bottle ZDDP Per MOP
Replace Oil Filter (Cut Open and Check for Metal); Torque Filter Hand Tight	X		Found OK--Safetied
Inspect Engine for Leaks at all Seals, Sensors, and Gaskets	X		No Leaks
Inspect Cylinders for Cracks/Broken Fins/Exhaust Stains	X		
Check Exhaust Pipes/Flanges/System for Security, Attachment and Condition; Torque Attachment Screws to 8 ft-lbs.	X		
Inspect Front Crankcase Seal for Damage or Leaks	X		
Inspect Engine Case, Accessory, and Mounting Bolt Torque	X		
Inspect Engine Mount/Bushings	X		
Inspect Oil Recovery Bottle and Engine Breather Line	X		
Inspect Intake Manifold and Manifold-Intake Tube Seals for Security/Leaks	X		
Check Rubber Intake Tube Couplers for Heat Damage, Cracking, and Security	X		
Inspect Ignition and Wiring Harness, Cap and Boots for Condition and Continuity	X		
Clean and Gap Spark Plugs (Denso Iridium) to 0.035", Install New Copper gaskets Apply Anti-seize Lube and Torque 7 to 8 ft-lbs. (72 in-lbs.)	X		
Remove Rocker Covers; Inspect Rocker Arms, Pushrods, Valve Stems, Valve Springs; Note Oil Color, Quantity, and Evidence of Carbon Blow-by in Valve Guides	X		Found OK
Inspect Engine Baffles and Inter-cylinder Baffles for Cracks/Condition	X		
Inspect Oil Cooler, Cooler Flanges and Mounting Brackets, Oil Filter Adapter, Oil Lines, and Oil Pressure Sensor	X		
Inspect Carburetor, Rubber Intake Boot's, and Clamps for Condition and Security	X		
Inspect Throttle & Mixture Controls for Proper Travel, Cable for Cracks or Kinks, Loose Hardware, and Overall Security	X		
Clean and/or replace Air Filter	X		Replaced with new Bracket filter
Check Cowling for Cracks, Chaffing, Heat Damage and Security; Remove All Oil and Residue	X		
Inspect Cowling Satco, Receptacles and Mounting Plates	X		

Inspection Item	S	U	Notes
Electrical:			
<i>--Firewall Side--</i>			
Battery (Security, Mount, Cables, Free of Corrosion)	X		
Battery Box (Security, Mounts and Corrosion)	X		
Relays (Battery Contactor, Starter Relay)	X		
Inspect Alternator Belt for wear and tension.	X		Replace with Master Pro 7280
Alternator (Stator) AC Leads, Terminals for Burning/Corrosion, and AC Wire-Loom Covering	X		
Wiring Harness Loom, Sensor Wire Bundles, and Firewall Pass Thru Points	X		
Rectifier/Regulator (Condition, Corrosion, Heat Damage, Connector, Terminals, Wires, Mounts)	X		
Fuses, Fuse Blocks, and Wiring for Condition and Security	X		
Grounding System (Cables, Grounding Block, Terminals, Main Engine Ground Cable) for Condition and Security	X		
<i>--Cabin Side--</i>			
Visually Inspect Under Panel for Loose Wires, Chaffing or Damage	X		
Switches for Secure Mounting, Secure Terminals, Evidence of Arcing and Proper Operation	X		
12v Accessory Sockets for Security and Proper Operation	X		
Fuel System:			
<i>--Firewall Side--</i>			
Fuel Cap and Rubber Plug for Condition, Operation, Chemical Damage and Secure Fitting	X		
Fuel Tank Vent System (Obstructions, Damaged Rubber Coupler, Secure Clamps, Kinked Drain Tube)	X		
Filler Neck Drip Pan (Sealant Degradation, Leaks, Alignment)	X		
Fuel Placard Properly Legible and Affixed to Fuel Cover Door	X		
Fuel Line for Chafing/Leaks/Security/Condition	X		
Inspect Quick Drain Valve (Mounting Security, Leaks or Damage)	X		
Draw Fuel Sample to Check for Water and Contaminants (4-8 oz); Test for Ethanol Content: Ethanol = <u>0</u> %	X		
Disassemble and Clean Fuel Filter Internal Screen	X		
Fuel Line Heat Shielding, Reflective Tape, and Insulation	X		

Inspection Item	S	U	Notes
Leaks, Weeping Fittings, Corrosion, Contamination Under Panel	X		
Inspect for operation Shutoff Valve	X		
Flow Sender for Leaks or Damaged Wiring	X		
Fuel Line Under Panel for Chafing/Leaks/Security/Condition	X		
Fuselage:			
<i>--Outside--</i>			
Fire Wall for Distortion, Cracks, Missing RTV Sealant at Edges, or Degraded Firewall Penetrations	X		
Cowl Mounting Hinges (Excessive Wear or Damage)	X		
Lose/Smoking Rivets, Lose Bolts, Cracked Skin	X		
Fuselage Splice Plate Bolts for Looseness or Evidence of Movement in Joint	X		Found OK
<i>--Inside--</i>			
Canopy Latching Mechanism for Damage, Cracked Plexiglas, Missing Spring, Legible Placard Installed	X		
Instruments, Pitot/Static/Labels and Marking for Condition and Security	X		
Wing Attach Bolts, Mounting Angles, and Adjacent Skin for Deformation, Cracks, Missing Hardware, Security	X		
Seats, Seat Belts/Shoulder Harness for Security and Attachment	X		
Upholstery (Condition, Velcro Security, Cleanliness)	X		
Inspect and Service ELT (Clean/Replace Batteries, Antenna Cable, Mounting Tray) (Bat Exp. Date: March 2024)	X		Replaced Batteries
COMM, ELT and Transponder Antennas (Security, Corrosion, Proper Grounding)	X		
Rudder Pedals for Cracks, Operation and Security of Bolts/Cotter Pins, Fraying or Kinks in Cables	X		
Flap Control Operation and Bolts for Security	X		
Control Stick for Wear, Freedom of Movement, and Security of Bolts/Cotter Pins	X		
Lube Control Triangle Bushings and Elevator Pushrod Link and Bellcrank Bushings (LPS-1)	X		
Baggage Compartment Floor for Cleanliness, Condition	X		
Rear Spar Carry Thru for Condition, Wear, and Security of Bolts	X		
Transponder, Connector, Antenna and Mounting Tray	X		
Elevator Push rod Support Snap Bushings for Wear, Security and Condition; Lube Bushings with White Lithium Grease	X		
Landing Gear:			
Wheel Pants for Cracks, Damaged or Elongated Holes, Stripped Nut plates	X		

Inspection Item	S	U	Notes
Gear Leg Fairings for Cracks or Excessive Wear	X		
Wheel Pant Mounting Plate (Cracks, Loose Bolts, Alignment)	X		
Inspect Wheel Alignment and Tire Wear Pattern	X		No Wear Pattern
Wheels/Tires for Cracks, Tread Depth and Serviceability	X		
Jack up Fuselage and Remove Wheels; Inspect Gear Leg Upper Bolts (AN4-33A) and Axle Socket Lower Bolts (AN4-16A); Replace every 500 hrs	X		
Inspect Brake System for Air Bubbles or Loss of Fluid Pressure	X		
Remove Brake Calipers, Wheels and Bearings	X		
Verify Brake Pucks are within Limits Nominal	X		Installed New Pucks Measuring .619
Brake Discs for Wear, Rust, Warping, Damaged/Missing Hardware	X		
Brake Lines for Chaffing or Cracking	X		
Axle Weldments and Mounting Tabs for Cracks, Corrosion, Elongated Holes	X		
Wheel Bearings, Remove Old Grease, Repack with Automotive Wheel Bearing Grease	X		
Replenish Fluid in Brake Master Cylinder; Bleed as Needed using Dexron VI ATF (Alternate ATF Fluid: Type A, Dexron II/III, Mercon V)	X		
Check Tire Pressure; Fill to 45 psi.	X		
Re-install Wheel Pants and Fairings; Loctite (blue) All Fasteners; Use New MS24693C273 (aka AN507C1032R10) 1032 x 5/8" Flush Stainless-Steel Machine Screws (12 Total) and AN525-10R11 Screws (2 Total)	X		
Wings:			
General Inspection of the Exterior/Interior of Wing	X		
Popped Rivets/Cracked/Deformed Skin	X		
Wingtips for Lose Rivets, Cracked Fiberglass	X		
Flap/Aileron Attachment (No Play or Slop)	X		
Aileron Bellcrank for Wear, Security	X		
Flight Control Hinges/Rod End Bearings/Bell cranks (Check for Binding and Excessive Wear)	X		
Corrosion (Internal Skins, Front and Rear Spars)	X		
Flight Control Bolts/Pins for Safety and Condition	X		
Lube Rod Ends, Hinges and Bushings (LPS-1)	X		
Pitot/Static Probe for Obstructions, Security, Tubing Connections	X		

Inspection Item	S	U	Notes
Empennage:			
Inspect Vertical Fin and Stabilizer Attach Points (Under Fairing Bolts, Tail Post Bolts, Horizontal Stab Bolts)	X		
Inspect Rudder Control Cables (Fraying, Ends, Attachment Bolts)	X		
Inspect and Lube Elevator Pushrod Rod End (LPS-1)	X		
Inspect Fiberglass Tail Tips (Cracks, Scuffs, Security)	X		
Inspect Fiberglass Tail Fairing (Cracks, Stripped Screw Holes)	X		
Inspect Tail Wheel Pushrod (Cracks, Damaged Rod Ends or Threads)	X		
Clean and Lube Tail Wheel Bearings and Pivot Arm	X		Cannot lube sealed bearings. Replaced Bearings
Inspect Tail Wheel for Tire Wear, Rotate Orientation as Needed	X		
Operational Inspection:			
Visual Inspection of the Engine/Propeller/Cowling	X		
All Inspection Panels and Fairings Secure	X		
Proper Fuel in Tanks 100LL	X		
Idle Rpm/Mixture Check	X		
Static RPM (Run-up) Check: Idle RPM 730-800	X		
WOT RPM 2960 Oil Temp 185 Oil Press 45			
Logbook Entry and Signoff:			
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 8/14/22 in accordance with the scope and detail of appendix D to part 43, and was found to be in a condition for safe operation."</i> Signed: _____ Repairman # _____			

I hereby certify that all requirements in this annual condition inspection report have been met, and I have determined the aircraft to be airworthy.

Signature _____

Certificate # (A&P or Repairman) _____

Notes:

Inspection Item	S	U	Notes
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Maintenance Data

Oil	15W-40 Shell Rotella T		
Oil Capacity	4 Qt. Minimum – 5 Qt. Maximum		
	Oil Filter	K & N 1008	
Air Cleaner	Bracket		
Fan Belt	Master Pro	#7280	
Spark Plugs	Denso Iridium 5378 / 1WF-20		
Spark Plug Gap	0.035 inch		

Torque Data

Prop Bolts	AN6 (3/8)	17 ft-lbs. (+/- 2)	
Cylinder Head	5/16"	25 ft-lbs., 27 ft-lbs. (new)	
Intake / Exhaust Cap Screws	1/4"	8 ft-lbs.	
Spark Plugs	11/16"	8-10 ft-lbs.	
Flywheel Bolts	5/16"	32 ft-lbs.	
	3/8"	36 ft-lbs.	
Crankcase Main Studs	3/8"	30 ft-lbs.	
Oil Drain Plug	1/2"	14 ft-lbs.	

Engine Operational Data

Max RPM	3600 RPM (2700 Minimum rpm static)
Idle RPM	800-1000 rpm
CHT Range	300-350° F (425° F Max)
EGT Range	1200-1375° F (1450° F Max)
Oil Pressure	15-55 psi (35-40 psi cruise)
Oil Temp	140° F minimum 240° F maximum (200-220° F Cruise)

SONEX CONDITION INSPECTION CHECKLIST

AIRCRAFT: (TD), SN 569
 REGISTRATION: N-569SX
 ENGINE: (Corvair) S/N AH 569
 PROPELLER: (Sensenich) S/N AG2491
 (Pitch) W54SKL-54S

	(This Annual)	(Last Annual)
DATE:	6/11/2021	3/1/2020
TT AIRFRAME:	373.2	343.7
TT ENGINE:	29.5	0 hr.'s
TT PROPELLER:	29.5	0 hr.'s

Inspection Item	SAT	UNSAT	Notes See Attached
General:			
Wash airplane. Remove all oil/grease from belly and inside cowling. Remove interior upholstery. Clean interior, cockpit floor, under-seat area, and baggage area	X		
Remove Seat (Cushions and Seat Pan) and Inspection Covers	X		
Remove Wheel Pants and Gear Fairings	X		
Remove Inspection Plates and Tail Fairing	X		
Remove Inspection Plates/Fairings	X		
Registration/Airworthiness/Operation Limitations Present	X		
Aircraft Identification Plate Installed	X		
All Cockpit Placards and Labels are Installed and Legible	X		
Experimental & Passenger Warning Placards Installed	X		
Weight and Balance/Equipment List Present	X		
EFIS Updated with Latest Software, Database and Maps	X		6/11/2021
Propeller:			
Check Spinner for Condition and Security	X		
Inspect Prop for Cracks, Nicks/Stone Damage, or Delamination	X		
Check Prop Hub Area for Crushing, Water Damage, Delamination or Burning. Inspect Bolts, Bolt Holes every 200 hrs.	X		
Re-torque Prop Bolts to 17 +/-3 ft-lbs (200 +/-20 in-lbs)	X		
Check Prop Tracking (Max 1/8" off at tips)	X		Less than 1/8 inch
Rebalance Prop After Making Any Repairs	X		

Inspection Item	S	U	Notes
Engine:			
Perform Periodic Maintenance per Engine Maintenance Manual	X		Per MOP Manual
Warm Engine until Oil Temp is 140 Deg. F	X		
Perform Compression Test (engine warm) #1--79/80 #2--78/80 #3--80/80 #4--76/80 #5--76/80 #6--76/80	X		
Drain and Replace Oil (4-5 qt., + ZDDP-A ((REQUIRED)))	X		Added 5qt's and 1/2 bottle ZDDP Per MOP
Replace Oil Filter (Cut Open and Check for Metal); Torque Filter Hand Tight	X		Found OK
Inspect Engine for Leaks at all Seals, Sensors, and Gaskets	X		
Inspect Cylinders for Cracks/Broken Fins/Exhaust Stains	X		
Check Exhaust Pipes/Flanges/System for Security, Attachment and Condition; Torque Attachment Screws to 8 ft-lbs.	X		
Inspect Front Crankcase Seal for Damage or Leaks	X		
Inspect Engine Case, Accessory, and Mounting Bolt Torque	X		
Inspect Engine Mount/Bushings	X		
Inspect Oil Recovery Bottle and Engine Breather Line	X		
Inspect Intake Manifold and Manifold-Intake Tube Seals for Security/Leaks	X		
Check Rubber Intake Tube Couplers for Heat Damage, Cracking, and Security	X		
Inspect Ignition and Wiring Harness, Cap and Boots for Condition and Continuity	X		
Clean and Gap Spark Plugs (Denso Iridium) to 0.035", Apply Anti-seize Lube and Torque 7 to 8 ft-lbs. (72 in-lbs.)	X		
Remove Rocker Covers; Inspect Rocker Arms, Pushrods, Valve Stems, Valve Springs; Note Oil Color, Quantity, and Evidence of Carbon Blow-by in Valve Guides	X		Found OK
Inspect Engine Baffles and Inter-cylinder Baffles for Cracks/Condition	X		
Inspect Oil Cooler, Cooler Flanges and Mounting Brackets, Oil Filter Adapter, Oil Lines, and Oil Pressure Sensor	X		
Inspect Carburetor, Rubber Intake Boot's, and Clamps for Condition and Security	X		
Inspect Throttle & Mixture Controls for Proper Travel, Cable for Cracks or Kinks, Loose Hardware, and Overall Security	X		
Clean and/or replace Air Filter	X		Replaced with new Bracket filter
Check Cowling for Cracks, Chaffing, Heat Damage and Security; Remove All Oil and Residue	X		
Inspect Cowling Satco, Receptacles and Mounting Plates	X		

Inspection Item	S	U	Notes
Electrical:			
<i>--Firewall Side--</i>			
Battery (Security, Mount, Cables, Free of Corrosion)	X		Replaced Battery with New Odyssey PC-680
Battery Box (Security, Mounts and Corrosion)	X		
Relays (Battery Contactor, Starter Relay)	X		
Filter Capacitor (Wires, Screws, Mount, Condition of Capacitor)	N/A		
Alternator (Stator) AC Leads, Terminals for Burning/Corrosion, and AC Wire-Loom Covering	X		
Wiring Harness Loom, Sensor Wire Bundles, and Firewall Pass Thru Points	X		
Rectifier/Regulator (Condition, Corrosion, Heat Damage, Connector, Terminals, Wires, Mounts)	X		
Fuses, Fuse Blocks, and Wiring for Condition and Security	X		
Grounding System (Cables, Grounding Block, Terminals, Main Engine Ground Cable) for Condition and Security	X		
<i>--Cabin Side--</i>			
Visually Inspect Under Panel for Loose Wires, Chaffing or Damage	X		
Switches for Secure Mounting, Secure Terminals, Evidence of Arcing and Proper Operation	X		
12v Accessory Sockets for Security and Proper Operation	X		
Fuel System:			
<i>--Firewall Side--</i>			
Fuel Cap and Rubber Plug for Condition, Operation, Chemical Damage and Secure Fitting	X		
Fuel Tank Vent System (Obstructions, Damaged Rubber Coupler, Secure Clamps, Kinked Drain Tube)	X		
Filler Neck Drip Pan (Sealant Degradation, Leaks, Alignment)	X		
Fuel Placard Properly Legible and Affixed to Fuel Cover Door	X		
Fuel Line for Chafing/Leaks/Security/Condition	X		
Inspect Quick Drain Valve (Mounting Security, Leaks or Damage)	X		
Draw Fuel Sample to Check for Water and Contaminants (4-8 oz); Test for Ethanol Content: Ethanol = 0 %	X		
Disassemble and Clean Fuel Filter Internal Screen			
Fuel Line Heat Shielding, Reflective Tape, and Insulation	X		

Inspection Item	S	U	Notes
Leaks, Weeping Fittings, Corrosion, Contamination Under Panel	X		
Inspect for operation Shutoff Valve	X		
Flow Sender for Leaks or Damaged Wiring	X		
Fuel Line Under Panel for Chafing/Leaks/Security/Condition	X		
Fuselage:			
<i>--Outside--</i>			
Fire Wall for Distortion, Cracks, Missing RTV Sealant at Edges, or Degraded Firewall Penetrations	X		
Cowl Mounting Hinges (Excessive Wear or Damage)	X		
Lose/Smoking Rivets, Lose Bolts, Cracked Skin	X		
Fuselage Splice Plate Bolts for Looseness or Evidence of Movement in Joint	X		Found OK
<i>--Inside--</i>			
Canopy Latching Mechanism for Damage, Cracked Plexiglas, Missing Spring, Legible Placard Installed	X		
Instruments, Pitot/Static/Labels and Marking for Condition and Security	X		
Wing Attach Bolts, Mounting Angles, and Adjacent Skin for Deformation, Cracks, Missing Hardware, Security	X		
Seats, Seat Belts/Shoulder Harness for Security and Attachment	X		
Upholstery (Condition, Velcro Security, Cleanliness)	X		
Inspect and Service ELT (Clean/Replace Batteries, Antenna Cable, Mounting Tray) (Bat Exp. Date: March 2022)	X		
COMM, ELT and Transponder Antennas (Security, Corrosion, Proper Grounding)	X		
Rudder Pedals for Cracks, Operation and Security of Bolts/Cotter Pins, Fraying or Kinks in Cables	X		
Flap Control Operation and Bolts for Security	X		
Control Stick for Wear, Freedom of Movement, and Security of Bolts/Cotter Pins	X		
Lube Control Triangle Bushings and Elevator Pushrod Link and Bellcrank Bushings (LPS-1)	X		
Baggage Compartment Floor for Cleanliness, Condition	X		
Rear Spar Carry Thru for Condition, Wear, and Security of Bolts	X		
Transponder, Connector, Antenna and Mounting Tray	X		
Elevator Push rod Support Snap Bushings for Wear, Security and Condition; Lube Bushings with White Lithium Grease	X		
Landing Gear:			
Wheel Pants for Cracks, Damaged or Elongated Holes, Stripped Nut plates	X		

Inspection Item	S	U	Notes
Gear Leg Fairings for Cracks or Excessive Wear	X		
Wheel Pant Mounting Plate (Cracks, Loose Bolts, Alignment)	X		
Inspect Wheel Alignment and Tire Wear Pattern	X		No Wear Pattern
Wheels/Tires for Cracks, Tread Depth and Serviceability	X		
Jack up Fuselage and Remove Wheels; Inspect Gear Leg Upper Bolts (AN4-33A) and Axle Socket Lower Bolts (AN4-16A); Replace every 500 hrs	X		
Inspect Brake System for Air Bubbles or Loss of Fluid Pressure	X		
Remove Brake Calipers, Wheels and Bearings	X		
Verify Brake Pucks are within Limits Nominal .635	X		Pucks at .460
Brake Discs for Wear, Rust, Warping, Damaged/Missing Hardware	X		
Brake Lines for Chaffing or Cracking	X		
Axle Weldments and Mounting Tabs for Cracks, Corrosion, Elongated Holes	X		
Wheel Bearings, Remove Old Grease, Repack with Automotive Wheel Bearing Grease	X		
Replenish Fluid in Brake Master Cylinder; Bleed as Needed using Dexron VI ATF (Alternate ATF Fluid: Type A, Dexron II/III, Mercon V)	X		
Check Tire Pressure; Fill to 45 psi.	X		
Re-install Wheel Pants and Fairings; Loctite (blue) All Fasteners; Use New MS24693C273 (aka AN507C1032R10) 1032 x 5/8" Flush Stainless Steel Machine Screws (12 Total) and AN525-10R11 Screws (2 Total)	X		
Wings:			
General Inspection of the Exterior/Interior of Wing	X		
Popped Rivets/Cracked/Deformed Skin	X		
Wingtips for Lose Rivets, Cracked Fiberglass	X		
Flap/Aileron Attachment (No Play or Slop)	X		
Aileron Bellcrank for Wear, Security	X		
Flight Control Hinges/Rod End Bearings/Bellcranks (Check for Binding and Excessive Wear)	X		
Corrosion (Internal Skins, Front and Rear Spars)	X		
Flight Control Bolts/Pins for Safety and Condition	X		
Lube Rod Ends, Hinges and Bushings (LPS-1)	X		
Pitot/Static Probe for Obstructions, Security, Tubing Connections	X		

Inspection Item	S	U	Notes
Empennage:			
Inspect Vertical Fin and Stabilizer Attach Points (Under Fairing Bolts, Tail Post Bolts, Horizontal Stab Bolts)	X		
Inspect Rudder Control Cables (Fraying, Ends, Attachment Bolts)	X		
Inspect and Lube Elevator Pushrod Rod End (LPS-1)	X		
Inspect Fiberglass Tail Tips (Cracks, Scuffs, Security)	X		
Inspect Fiberglass Tail Fairing (Cracks, Stripped Screw Holes)	X		
Inspect Tail Wheel Pushrod (Cracks, Damaged Rod Ends or Threads)	X		
Clean and Lube Tail Wheel Bearings and Pivot Arm	X		
Inspect Tail Wheel for Tire Wear, Rotate Orientation as Needed	X		
Operational Inspection:			
Visual Inspection of the Engine/Propeller/Cowling	X		
All Inspection Panels and Fairings Secure	X		
Proper Fuel In Tanks 100LL	X		
Idle Rpm/Mixture Check	X		
Static RPM (Run-up) Check: Idle RPM 850-900	X		
WOT RPM 3080 Oil Temp 185 Oil Press 44			
Logbook Entry and Signoff:			
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 6/11- in accordance with the scope and detail of appendix D to part 43, and was found to be in a condition for safe operation"</i> Signed _____, Repairman # _____			

I hereby certify that all requirements in this annual condition inspection report have been met, and I have determined the aircraft to be airworthy.

Signature _____

Certificate # (A&P or Repairman) _____

Notes: _____

Inspection Item	S	U	Notes
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Maintenance Data

Oil	15W-40 Shell Rotella T
Oil Capacity	4 Qt. Minimum – 5 Qt. Maximum
Oil Filter	K & N 1008
Air Cleaner	Bracket
Spark Plugs	Denso Iridium 5378 / 1WF-20
Spark Plug Gap	0.035 inch

Torque Data

Prop Bolts	AN6 17 ft-lbs. (+/- 2)
Cylinder Head	5/16" 25 ft-lbs., 27 ft-lbs. (new)
Intake / Exhaust Cap Screws	1/4" 8 ft-lbs.
Spark Plugs	11/16" 8-10 ft-lbs.
Flywheel Bolts	5/16" 32 ft-lbs.
	3/8" 36 ft-lbs.
Crankcase Main Studs	3/8" 30 ft-lbs.
Oil Drain Plug	1/2" 14 ft-lbs.

Engine Operational Data

Max RPM	3600 RPM (2700 Minimum rpm static)
Idle RPM	800-1000 rpm
CHT Range	300-350° F (425° F Max)
EGT Range	1200-1375° F (1450° F Max)
Oil Pressure	15-55 psi (35-40 psi cruise)
Oil Temp	140° F minimum 240° F maximum (200-210° F Cruise)