PRE-FLIGHT CHECKIST Zodiac CH 601 series & 650

February 2010 Rev 2

INTRODUCTION

Use this inspection check list before flying your aircraft for the first time, when performing a major inspection (annual) or when reassembling the aircraft, after performing major alterations or repairs or in the event that you purchased the aircraft, after a hard landing, after exceeding the airframe design limitations, etc.

This checklist is a useful guide to help you thoroughly inspect your aircraft. However, it may not accurately reflect your aircraft as it was originally built or equipped, especially as it relates to installed engine, engine accessories, options, installed avionics and other systems.

USE THE ZODIAC CH 601 XL or 650 COMPLETE SET OF BLUEPRINTS AS YOU ASSEMBLE AND INSPECT YOUR AIRCRAFT.

USE THE ENGINE MANUALS AS YOU ASSEMBLE AND INSPECT YOUR AIRCRAFT.

USE THE PROPELLER MANUALS AS YOU ASSEMBLE AND INSPECT YOUR AIRCRAFT.

Supporting documents / information needed for the pre-flight inspection:

Zodiac kit assembly instructions (Zenith Aircraft Co.)

Zodiac ground test procedure (AMD)

Production flight test procedure (AMD)

Service Manual (AMD)

Flight Manual (AMD)

Parts catalogue (Zenith Aircraft Co.)

AC43-13-1b and AC43-13-2a (FAA)

Design and Construction Manual (Zenith Aircraft Co.)

Contact your local EAA Chapter for support and for a Technical Advisor

Contact your local A&P Mechanic

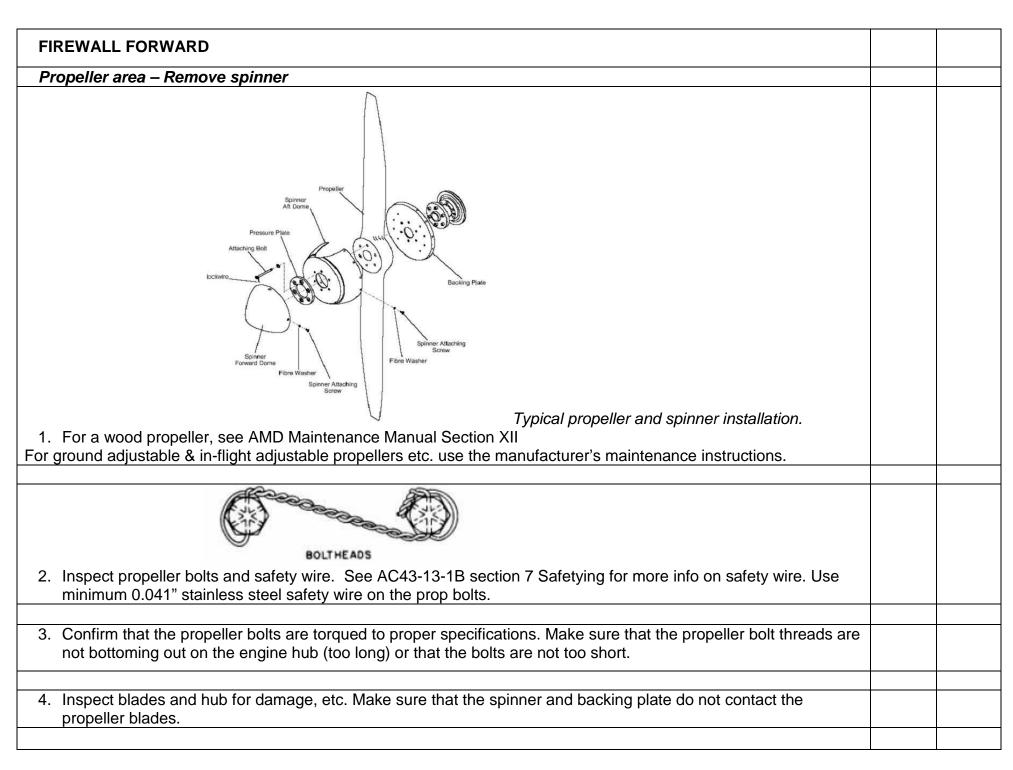
AMD Safety Alert, POH etc. http://www.newplane.com/amd/CH2000_Service.html

FAA SAIB and other supporting documents. http://zenithair.com/news/ntsb-astm-4-09a.html

When disassembling/reassembling or assembling the aircraft, see Appendix 1 of the AMD POH.

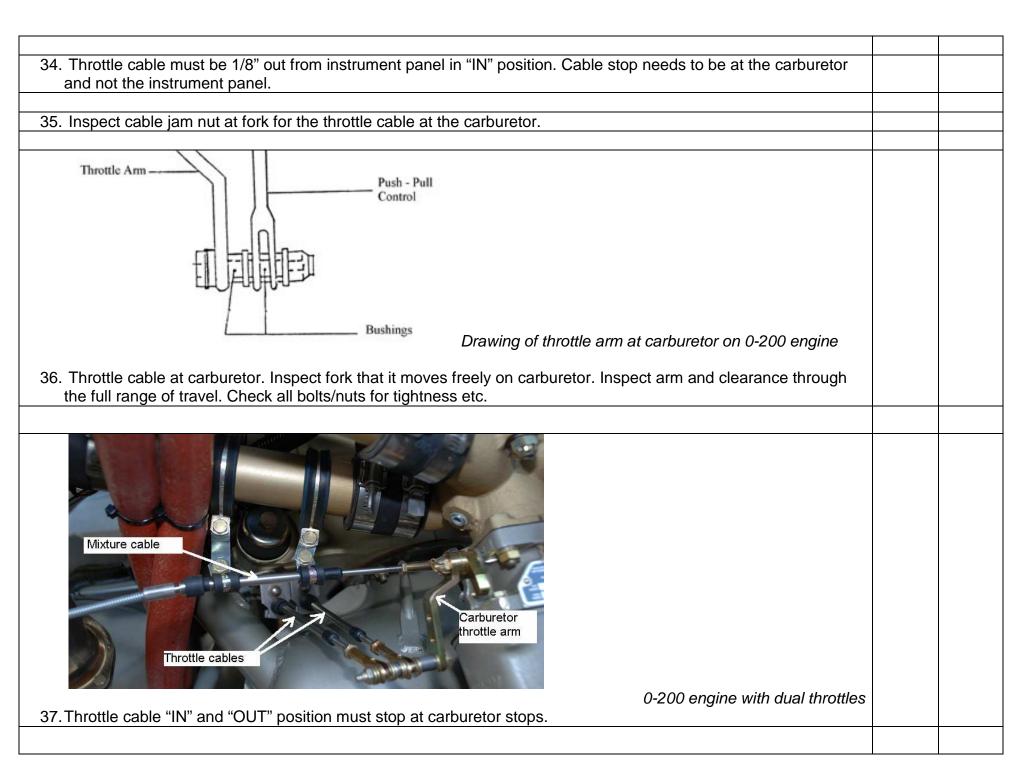
As you inspect your aircraft and find discrepancies, write them down in the space provided under the inspection so that you can go back and make appropriate changes.

For amateur built aircraft, some of this information may not be applicable based on your installed equipment, options, and/or configuration.



5. Inspect spinner and backing plate. Thread locking compound needs to be used on spinner screws.	
Cowling area – with cowling on	
6. Inspect general condition of cowling and baffle clearance. Engine and accessories should not touch the cowling.	
7. Inspect muffler down tube clearance at bottom of cowling.	
9. Induct note goar log electrones at bottom of couling	
Inspect nose gear leg clearance at bottom of cowling.	
9. Inspect cowling at fuselage all around the firewall. The cowling should fit tightly to the fuselage.	
10. Inspect cowling fasteners and make sure they are easy to install.	
11. Inspect oil door, Dzus fasteners and nylon retaining washers – door must be tight to cowling.	
40 loon of helle decreased leabther wheeld decreased in	
12. Inspect baffle clearance – look through oil door opening.	
13. Inspect baffle tape and staples. Must be tight to top cowling. Look through front of cowl with flashlight.	
14. With propeller installed, check propeller spinner clearance. Must have minimum clearance of 1/4" between front of cowling and propeller.	
15. Make sure that oil dip stick is not contacting the oil door on cowling.	
4C. Dhysically, may a couling at front it must be tight	
16. Physically move cowling at front, it must be tight.	
17. Inspect oil level.	
Run engine then remove cowling at this time	
18. When running the engine, confirm that the engine, all gauges, engine controls, etc. are working properly	
19. After running engine, remove cowling, make sure that screws are easy to remove. Cowling must be re-installed and inspected if any changes need to be made to the cowling.	

20. Inspect cowling anchor nuts.	
21. Inspect cowling for indications of anything rubbing on the cowling such as baffling, air intake box, hoses, ect.	
Inspect oil system area	
22. Confirm that proper oil type was used (see engine manuals for specific information).	
23. Inspect oil filter area for leaks.	
24. If all radiator is installed, inspect lines and condition of radiator. Inspect for leaks at	
24. If oil radiator is installed, inspect lines and condition of radiator. Inspect for leaks etc.	
25. Inspect oil radiator mounting brackets for cracks etc.	
201 Interposit on readilater mountaing practices for ordere oter	
26. Check safety wire on oil cooler filter, oil drain, sump, etc.	
Fuel system area	
27. Inspect fuel lines for fuel leaks.	
28. Inspect fuel line ends and fire sleeve ends.	
29. Inspect fuel lines for any sharp edges. They must not make contact with any sharp edges. Make sure that ALL items cannot touch the muffler system.	
30. Inspect (optional) electric fuel pump bolts to firewall and primer line.	
24. Inappert angine mechanical fuel nump, halte, and cofety	
31. Inspect engine mechanical fuel pump, bolts, and safety.	
32. Disconnect the fuel line at the carburetor. Check the fuel flow by running the electric fuel pump and pumping fuel from the tanks into an appropriate container. Fuel flow should be at least 2 times the required fuel flow at maximum throttle setting.	
Throttle / mixture system area	
33. Inspect the push/pull throttle cable in the cabin. It must feel smooth "IN" to OUT".	



38. Mixture cable must be 1/8" out from instrument panel in "IN" position. Cable stop needs to be at the carburetor and not the instrument panel.		
39. Mixture cable at instrument panel must feel smooth "IN" to OUT".		
40. Mixture cable at engine mount must be tied with Adel clamps to engine mount so that it cannot move.		
41. Mixture cable at carburetor must be bolted and cable end must be bent.		
42. Mixture cable "IN" and "OUT" position must stop at carburetor stops.		
Inspect carburetor air intake box area		
43. Inspect carburetor bolts to carburetor air intake box / safety wire or safety washers.		
44. Inspect carburetor bolts / safety washers to engine.		
45. Inspect carburetor air intake box filter at front. Check bolts and proper fitting of filter. Check for cracks in the box.		
46. Inspect carburetor air intake box control cable bolts and safety washers.		
47. Inspect carburetor air intake box - muffler heat flap movement by moving cable.		
48. Carburetor heat pull-push cable must feel smooth from the "IN" to "OUT" position.		
49. Carburetor heat cable must be 1/8" out from instrument panel in "IN" position.		
50. Carburetor heat cable must be bolted, bolt must rotate freely, and cable end must be bent.		
51. Carburetor heat cable arm at air box must not contact the carburetor.		
Muffler area		
52. Inspect muffler nuts bolting muffler to engine.		
	1	

		1
53. Inspect muffler nuts. Nuts must be self locking heat type.		
54. Inspect muffler clearance at bottom of firewall area and bottom of engine mounts. Must have al least ¼" clearance.		
55. Inspect muffler shroud hose clamps positioned on shroud.		
56. Inspect SCAT hose from muffler shroud to carburetor air box clamps. SCAT hose must not have sharp bends as to make sure that airflow is not limited.	Left	Right
57. Inspect SCAT hose from muffler shroud to cabin air box – must be tightly secured.		
Engine mount area		
58. Inspect SL large nuts at engine mount.		
Washer Rubber Mat. Spacer Rubber Mat. Washer Nut & Cotter Pin Typical installation of engine mounts, on Continental 0-200		
59. Inspect nuts and cotter pins at engine / engine mount.		
60. Inspect paint on engine mount for any paint chips or cracks.		
22	_	
61. Inspect cables close to engine mount for any rubbing or loose cables.		
62. Inspect the rubber engine vibration isolating mounts for proper installation.		
62. Hispool the rabbet engine vibration isolating mounts for proper installation.		

63. Inspect grounding strap. Make sure that there is no paint under strap connection and there is good conductivity to ground.		
Fueine serves condex units		
Engine gauge sender units		
64. Make sure all the different sender units are tight and not leaking and that electric wires are tight. Inspect fuel pressure sender unit		
65. Inspect oil pressure sender unit on engine. Must be tight and safety with thread locking compound.		
66 Inapport oil temporature conder unit. Must be tight and sofety with thread looking compound	-	
66. Inspect oil temperature sender unit. Must be tight and safety with thread locking compound.		
67. Check tachometer cable or wires.		
68. Check for all other sender or engine units such as fuel flow meter etc.		
Engine baffle area		
69. Note that baffle tape at top of aluminum baffles must touch top of cowling as to make sure that the air is forced into engine cylinders. Aluminum Baffles must not contact cowling as to minimize baffle wear and cracking. Fiberglass cowling must not contact engine or anything at engine area.		
70. Check general condition of engine baffles.		
71. Check the baffle tape and staples. Also make sure that baffle tape is riveted to front of bottom cowling area for carb. air intake.		
72 Inapper hoffles left and right to couling elegrance at front Leek for wear marks on hoffles from southing	-	
72. Inspect baffles, left and right, to cowling clearance at front. Look for wear marks on baffles from cowling.	+	
73. Inspect baffle black silicone sealer all around baffles at rear or engine.		
74. Inspect baffle spring holding bottom cylinder baffles.		
75. Inspect baffle screws to engine. Make sure they are tight and have safety washers.		
76 Inappet air accep at front haffle	-	
76. Inspect air scoop at front baffle.		

77. When installing top and bettem cowlings, they must be easy to install and helts must be easy to install		<u> </u>
77. When installing top and bottom cowlings, they must be easy to install and bolts must be easy to install. Everything must fit nicely.		
78. Inspect baffle clearance at front of cowling, left and right.		
Cabin heat air intake area		
79. Inspect SCAT hose and clamps at baffle to muffler shroud, everything must be tight.		
80. Inspect SCAT hose and clamps from muffler shroud to air box at firewall.		
81. Open and close air box at firewall from inside cabin. Make sure that in the closed position the box flap closes completely.		
82. Check air box bolt movement and clearance, cable connection, and that the cable end is bent.		1
83. Check that cabin heat cable at instrument panel is out 1/8" when closed.		-
Fuel primer area – (Fuel primer is optional)		
84. Check fuel primer line coming out at fuel manifold.		
85. Check that there is a big loop in the fuel primer line near engine in order to absorb vibrations.		
03. Offeck that there is a big loop in the ruer primer line flear engine in order to absorb vibrations.		+
86. Check that fuel primer line is well connected at engine and not rubbing on anything hard or sharp.		
87. Check that fuel primer line has clearance at baffles.		
Electrical area	Left	Rig
88. Inspect voltage regulator connections and tightness of wires, ties, and not contacting any sharp edges.		
89. Inspect alternator connections and tightness of wires, ties, and not contacting any sharp edges.		1

 Inspect noise suppressor at alternator connections and tightness of wires, ties, and not contacting any sharp edges. 		
91. Inspect starter connections and tightness of wires, ties, and not contacting any sharp edges.		
92. Inspect starter mounting bolts and safety to engine.		
93. Inspect starter wires at firewall connections and tightness of wires, ties, and not contacting any sharp edges.		
94. Inspect starter solenoid on firewall.		
95. Inspect starter solenoid unit connections and tightness of wires, ties, and not contacting any sharp edges.		
96. Inspect ignition system insulated wire and that insulator is grounded. Inspect connections and tightness of wires, ties, and not contacting any sharp edges. Do this for both left and right sides.		
97. Inspect ignition system wire connections from key switch. Nuts at ignition system must be tight.		
98. Inspect fuel pump connections and tightness of wires, ties, and not contacting any sharp edges.		
99. Inspect top and bottom spark plug leads and ties. They must not rub on engine mount, baffles, or top of engine.	Left	Right
100. Make sure that no wires can / are touching any sharp edges.		
Nose wheel area		
Nose gear bungee must not touch sides of center firewall stiffener (U channel) Nose wheel bungee area 101. Bungee must be properly installed and must not touch or rub against stiffener sides or rivets. If bungee is damaged, replace.		

102. Inspect bungee pin and safety. 103. Inspect bungee clearance with rivets in center firewall stiffener on sides.	
Nose Gear Leg Bushing Lower Nose Gear Bushing Safety Wire Bottom area of nose wheel bearing area 104. Inspect top and bottom nose gear bearings and safety wire bolts on bottom.	
105. Inspect grease at top and bottom bearings on nose gear strut.	
106. Inspect rudder pedal rod ends and witness holes at nose gear area.	
107. Inspect nose gear self centering at full deflection left and right. Nose wheel must snap back to center by itself.	

Steering rods from rudder pedals to nose strut Engine side of firewall. Slots for nose strut steering 108. Shown here are two metal plates with another plate inside that slides up and down with movement of rudder rode. Bottle tape can also be used. Check the slides do not bind on the covers.	Left	Right
rods. Baffle tape can also be used. Check the slides do not bind on the covers.		
109. Inspect clearance at center firewall stiffener for steering rods at full deflection left and right.		
110. Inspect nose wheel axel, bolt, and side shimming of wheel.		
111. Inspect nose wheel gear fork and bolts.		
112. Inspect tire pressure and condition of tire.		
Firewall area		
113. Inspect all rivets THROUGH firewall. Make sure that there are no open holes. Inspect firewall sealer.		
114. Inspect holes through firewall are sealed with fire type sealer. Sealer also needs to be applied around firewall edge.		
115. Confirm bolt torques (use FAA AC 43.13 for all bolt torques, unless noted otherwise) and inspect engine mount bolts and safety at firewall.		
116. Inspect area around engine mount fittings at firewall. Fittings must be tight at firewall.		
117. Inspect general condition of firewall and installed items to firewall.		

	 1
Battery area	
118. Inspect battery strap and bolts. Battery must be tightly secure.	
119. Inspect bottom extrusion holding battery up.	
120. Inspect battery terminals. Check that they are tight and have SL nuts or lock washers.	
Control cables	
Typical cable end	
121. See AC43-13-1a for cable ends and safety, chapter 7. Sleeve must be very tight inside cable.	
NOTE: Before inspecting the aircraft control cables, make sure that they were properly installed with the proper tools.	
SWAGE SLEEVE GAUGE	
PART NO: TP353	
Gauges the following size swages: 1/32", 3/64", 1/16", 3/32", 1/8", 5/32" and 3/16"	
122. Available from US Tool. 1-800-521-4800. Use this go-no-go gauge to confirm that each nicopress is properly installed.	



123. Use a calibrated cable gauge. Squeeze ball handle, put gauge on cable, release handle, and read tension on rotation dial. See manufacturer's manual for specific instructions.

AUTOMATIC SAFETY WIRE TWISTERS PART NO: TP68SR

- · 9" overall length
- Automatic (spring return)
- · "Three-in-one" tool: plier, twister & cutter
- . Use on wire .060 or less



124. When installing safety wire, use the proper tools. This wire twister is available from US Tool

AIRCRAFT SAFETY WIRE

PART NO: TP65 .032 diameter PART NO: TP66 .041 diameter PART NO: TP67 .020 diameter

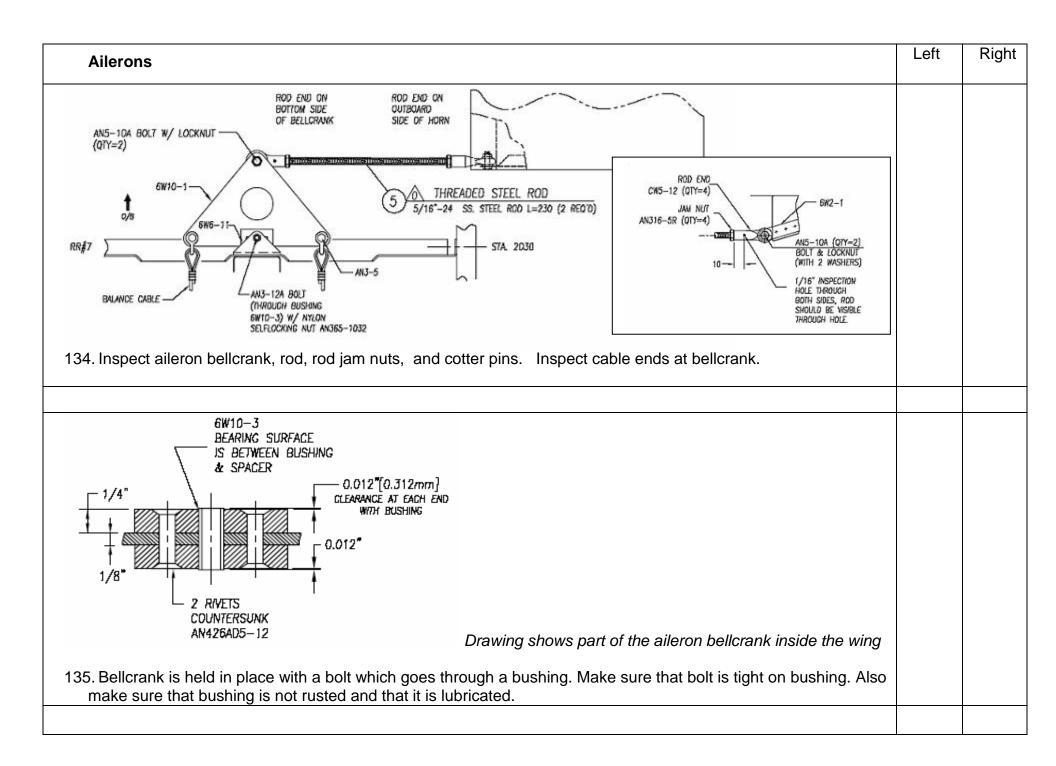
1 lb. spool

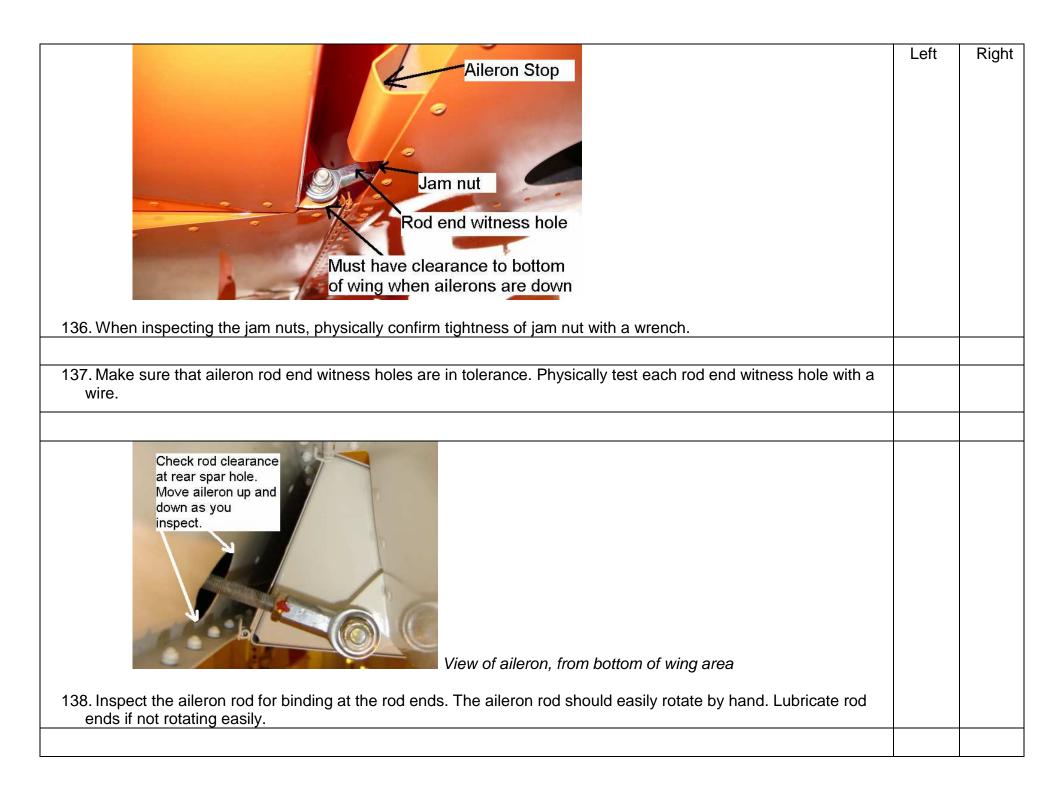
- 302 MS 20995-C stainless steel wire
- . Conforms to Mil Spec W6713

125. Use aviation grade safety wire and proper diameter. Diameter varies on bolt diameter etc.

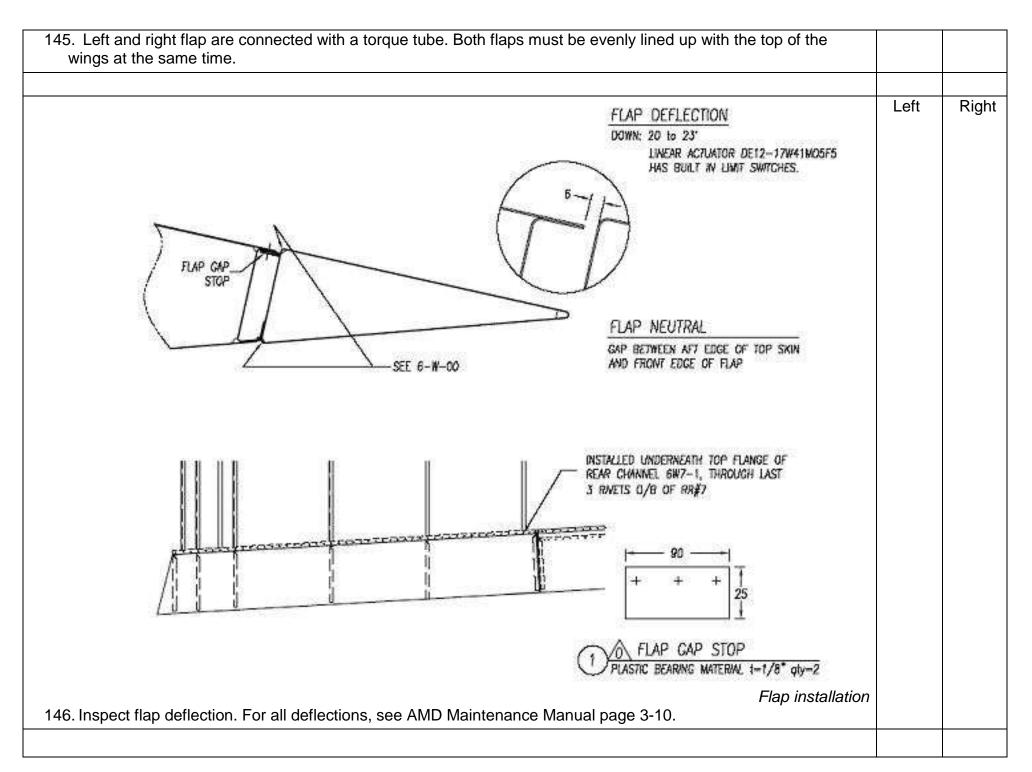


WINGS	Left	Righ
26. Inspect upper and lower wing skins and leading edges for missing rivets, loose fasteners, damage, etc.		
27. Inspect wing tip light and area.		
28. Inspect the external surfaces of the ailerons and flaps for clearance to wing and each other, missing rivets, and general condition.		
29. Inspect the ailerons at inboard area from bottom, and check for smooth movement. When flight controls are not locked when parked on the ground, severe wind can do a significant amount of damage to the ailerons, stops, etc. See AMD Notification letter of January 2009.		
30. Inspect Pitot tube and area. Confirm that ASI and ALT work.		
31. Inspect landing/taxi, and strobe lights. Confirm that they work and are properly positioned.		
32. Inspect wing locker (optional) area. Check the piano hinges are safety tied, opening and closing the door is easy, and check the screws.		
Wing root seal FUEL DRAIN Typical root seal is glued to wing and fuselage from rear spar, wrapping around leading edge.		



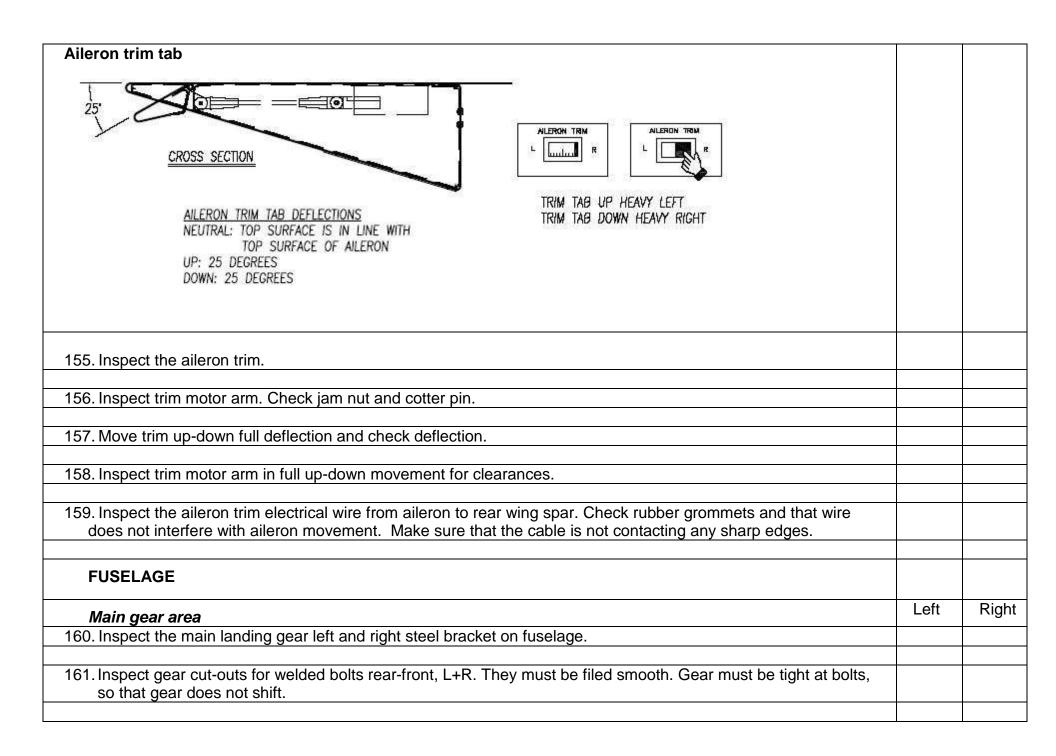


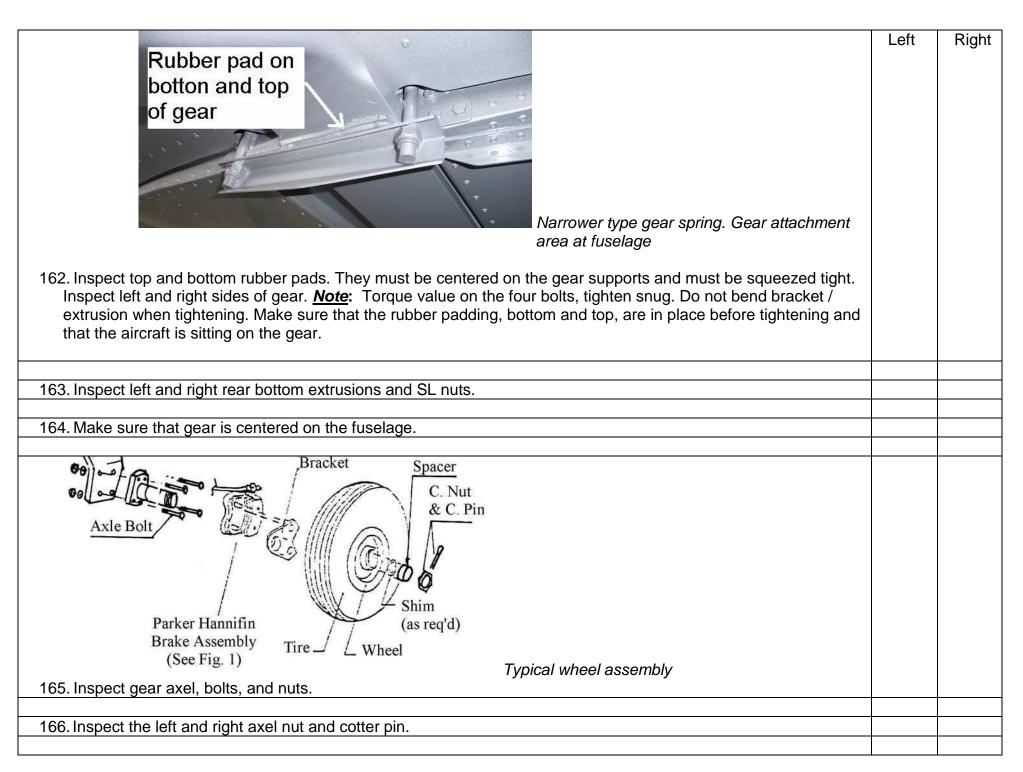
39. Inspect safety wire on both ends of aileron piano hinge		
Flaps	Left	Rig
SAFETY ON BOTH ENOS OR SQUEEZE END OF HINGE TO RETAIN PIN OR USE PIN LUNGER THAN HINGE AND BEND OVER. Typical safety tie end of piano hinge		
40. All piano hinges need to be safety tied at each end. Inspect safety wire on both ends of flap piano hinge.		
41. Check lubrication on the aileron and flap hinges.		
The Chock tablication on the allerent and hap tilliges.		
42. LOWER flap and inspect the steel flap pin going into flap and clearance at fuselage. With flaps down, physically move the flap up and down by hand lightly. There should be minimal movement.		
43. Inspect the clearance between the flap and fuselage while deflecting the flap UP and Down. Flap and steel torque tube must not contact fuselage side.		
Flap stop Top of wing at O/B flap area		
44. Inspect flap "UP" position. Flap must have positive contact with flap stop. There must not be play in the flap control system with flaps up.		



Fuel	Left	Right
TANKS REST ON CORK STRIPS DIRECTLY ON LEADING EDGE SKIN FINGER SCREEN NIPPLE COUPLER HOSE CLAMPS FUEL LINE		
Typical installation of fuel line to gas tank		
147. Check for fuel leaks and safety on fuel line hose clamp at fuel tank outlet. Confirm proper installation of fuel tank finger screen and that hose clamps are safety tied.		
148. Use aviation type fuel sealer when installing – reinstalling fuel fittings		
149. Drain some fuel from wing fuel tank using sump drain. Check sump drains for leaks and debris.		
150. Check fuel tank filler cap for security and condition.		
With a sealed fuel cap, it is recommended to drill an 1/8" hole that the rear of the fuel venting tube, just outside of the wing skin, to prevent possible siphoning.		
Fuel tank breather tube		
151. Inspect gas tank fuel breather. Breather must be cut at 45 Deg. at front of tube. If your gas tank does not have		

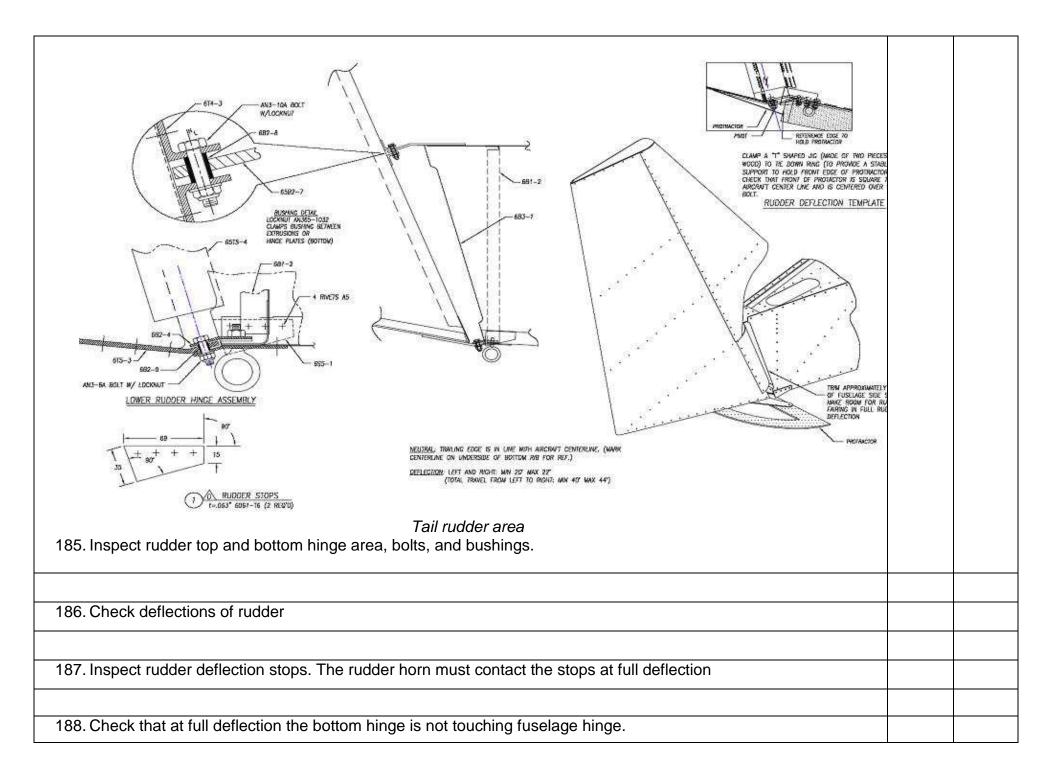
a fuel breather line, make sure that your fuel cap is properly vented.		
	Left	Righ
FUEL SENDER ————————————————————————————————————		
RUBBER GASKET		
FUEL TANK		
226-451 MOUNTING RING		
FUEL SENDER ARM OPEN OF THE PARALLEL TO SPAR		
Typical installation of fuel sender		
52. Inspect fuel tank sender unit access cover. The cover should be tightly secured to the wing.		
53. Calibrate fuel gauge by filling tank in ¼ increments. Adjust calibration by adjusting the fuel sender arm. If		
sender outlet is leaking, remove unit, and install a new rubber gasket. Aviation fuel type sealer can also be used.		
54. From outside aircraft, inspect gascolator. Confirm that gascolator bowl can be removed easily for inspection.		
Check wire safety. Make sure that screen is clean and fitted properly.		



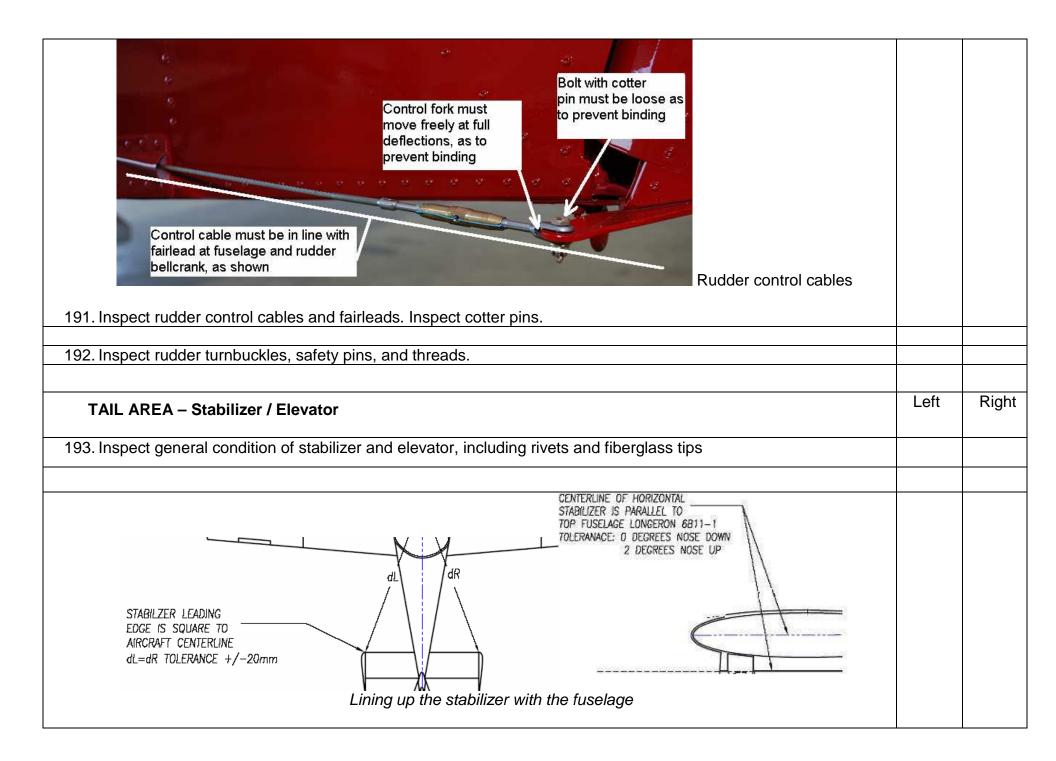


167. Inspect the left and right brake calipers. Brake assembly must be loose to wheel hub around brake disc. See		
manufactures recommendations for bolt torque.		
168. Inspect the left and right brake fitting at caliper.		
169. Inspect brake line at wheel and up to fuselage. Confirm that the lines are not contacting any sharp edges.		
170. Inspect brake line entering fuselage. Check grommet and that brake line is not tight or contacting any sharp edges.		
171. Inspect the left and right tire pressure and condition of tire and area.		
Rear fuselage (inside)	Left	Right
Flap system Inside rear fuselage, behind seat 172. Check that control cables are only touching fairleads and that the fairleads are not worn by cables. Check left and right sides, including elevator and rudder cable fairleads, and properly lubricate the fairleads.		

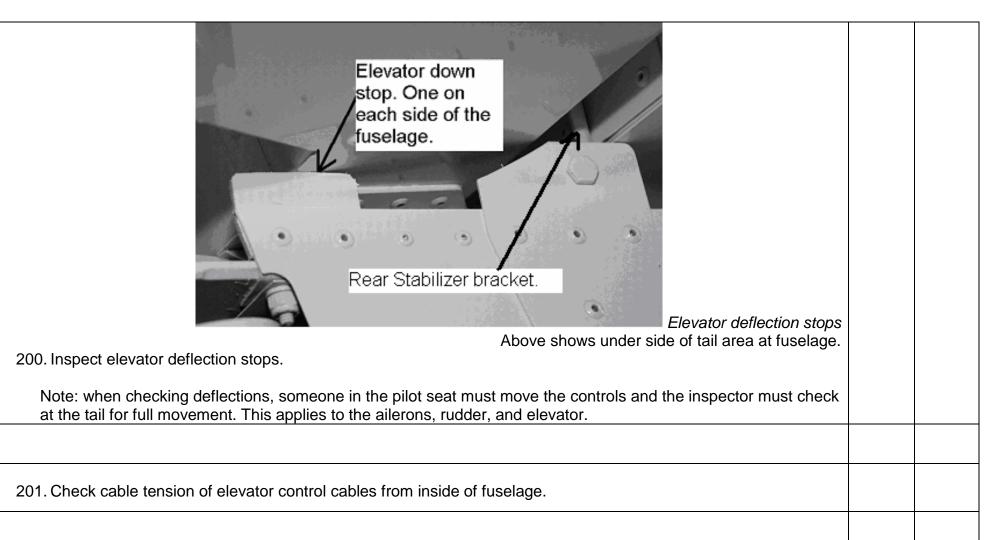
173. Inspect aileron cables for obstructions. The aileron cables should ONLY make contact with fairleads. If wires, fuel line, pitot tubes, ect. could possibly make contact with the aileron cables, secure the obstruction or reroute the obstruction clear of the aileron cables.	
174. Move flap "UP" and "DOWN". Check clearance at rear spar.	
175. Inspect flap torque tube at fuselage sides. Check clearances around the flap torque tube.	
176. Inspect flap bolts on torque tubes and flap control arm.	
177. Inspect flap motor area and welded bracket riveted to seat channel. Check rivets, bolts, and nuts.	
178. Inspect electrical wire at flap motor. Check connection plug and bracket and that plug has silicone.	
179. Inspect rear spar channel, upright, and rivets behind seat.	
180. Inspect rudder and elevator control cables in rear fuselage.	
Rear fuselage (outside)	
181. Inspect fuselage bulkheads and stiffeners. Make sure that rivets were properly set.	
182. Inspect tail tie down area, bolts, and nuts.	
Rudder to fuselage	
183. Inspect general condition of the rudder, rivets, etc.	
184. Inspect rudder tail light fairing condition and quality of fiberglass fairing.	

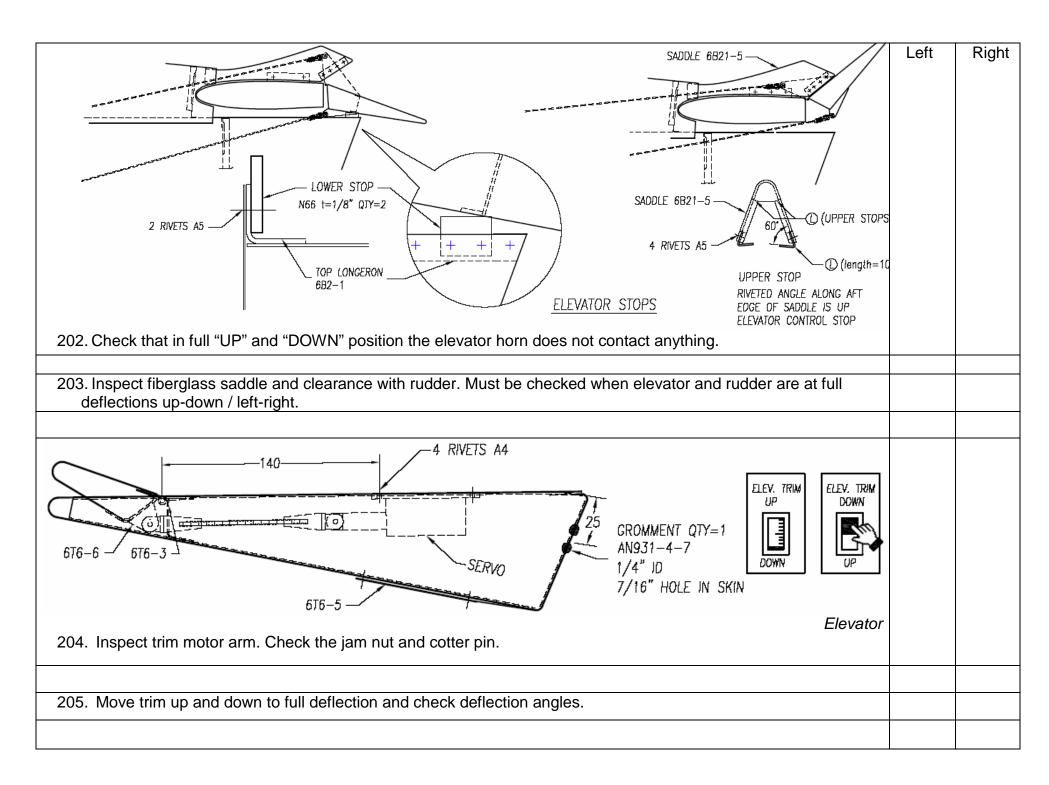


In order to get	Left	Righ
proper rudder 6G2-4 - AN365-524 deflection, S.L. NUT		
you may have		
to file edge of N3-42A BOLTS AN3-41A BOLTS BOLTS		
AN4H-5A (4 REQ'D) 2 BOLTS		
PER SIDE SAFETY TIE TOGETHER		
Nose wheel area		
90. Note: In order to have smooth rudder controls, make sure that the nose wheel strut is not tight when moving the rudder pedals. Test by lowering the rear fuselage and with your hands, move the nose wheel left and right. It should return to the center by itself. If not, oil all the bearings at nose strut and at rudder pedal area. If still tight, loosen the bottom bearing block 6G2-1. If still tight, loosen all other bearings slightly.		



105 Line up top of elevator and stabilizer. Make ours that from left to right aids, there is no twist. Elevator trailing		
195. Line up top of elevator and stabilizer. Make sure that from left to right side, there is no twist. Elevator trailing edge must be in line with stabilizer.		
196. Inspect stabilizer bolts attaching the tail to the fuselage sides, and 4 brackets riveted to fuselage. Inspect rear bracket riveted to stabilizer and bolted to fuselage. Check for loose rivets and cracks on all brackets.		
197. Inspect piano hinge stabilizer to the elevator. Check safety at ends, lubrication, etc.		
98. Inspect elevator control cable ends and cotter pins.		_
N	Left	Ri
PIVOT IS PIANO HINGE PIN ELEVATOR DEFLECTIONS NEUTRAL: TRAILING EDGE OF ELEVATOR IS IN		





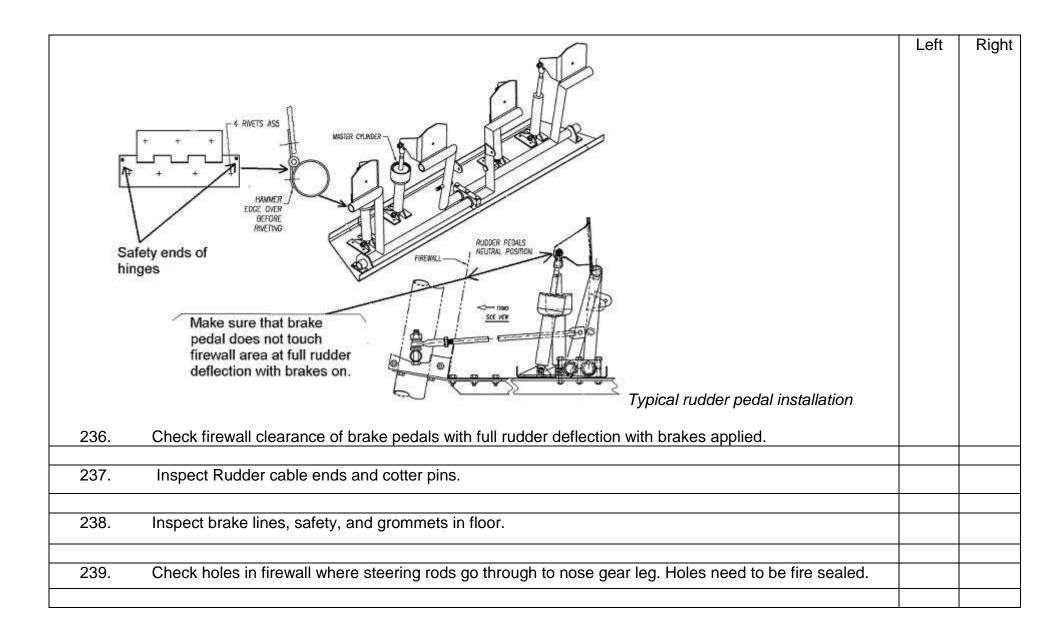
206. Inspect trim motor arm in full up and down movement for clearances.		
207. Inspect safety wire at trim tab piano hinge ends.		
208. Inspect the electrical trim wire from elevator and stabilizer to rear fuselage. Check rubber grommets and wire does not interfere with elevator movement. Make sure that the cable does not touching any sharp edges and is properly tied.		
CABIN	Left	Righ
Instrument panel area – Behind Instrument panel and firewall area		
209. Remove the top skin over the instrument panel or lower your head underneath the panel so that you can get an excellent view of everything.		
210. Inspect the overall condition of all items and that they are not rubbing on any sharp edges, etc.		
211. Inspect rear of firewall engine mount fittings. Check for cracks, SL nuts, etc.		
Check that engine mount fittings are snug at firewall Do not stress fittings by over tightening bolts Engine mount fittings at firewall 212. Welded steel fittings must have the same angles as the firewall as to fit properly. If angles are not the same,		

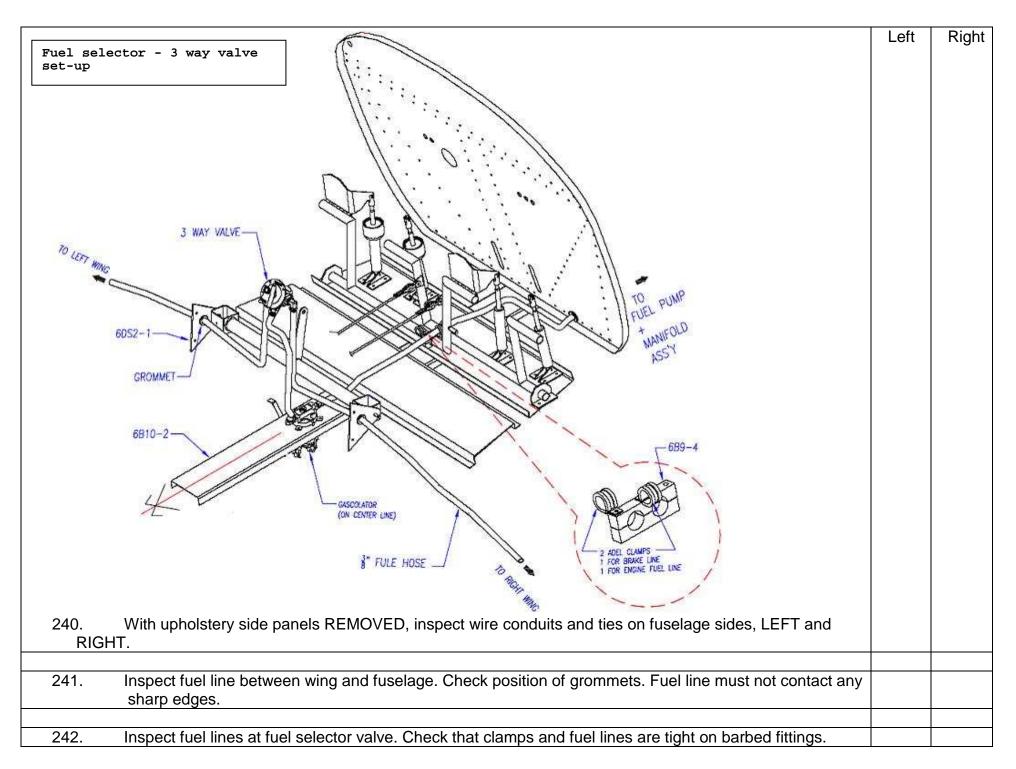
213. Make sure that when cables are routed through the firewall that fire retardant type sealer is used and that no sharp edges are / can damage the cables, fuel line, electrical wires, etc.		
ASJ. ASJ. PITOT LINE FROM WING AMR2 AM	Left	Right
215. Check that there are no sharp or tight bends in the pitot / static lines.		
216. Inspect attachment of encoder.		
217. Inspect static line from flight instruments to encoder.		
218. Transponder-Encoder and pitot static tests:		
FAR 91.411 (No person may operate an airplane, or helicopter, in controlled airspace under IFR unlessWithin the preceding 24 calendar months, each static pressure system, each altimeter instrument, and each automatic pressure altitude reporting system has been tested and inspected and found to comply)		
FAR 91.413 (No persons may use an ATC transponderunless, within the preceding 24 calendar		

months, the ATC transponder has been tested and inspected and found to comply)		
You need to consult with your local airworthiness requirements on this.		
Typical installation of instrumentation 219. Inspect ELECTRICAL system behind instrument panel. Check that all electric wires are not contacting any sharp edges. Check safety ties.	Left	Right
220. Inspect rear of avionics and make sure that they are properly attached to instrument panel		
		i

222. Inspect headphone jack plugs. 223. Inspect tachometer cable behind instrument panel. Check tightness of cable nut at instrument.		
Brackets Aluminum brackets are installed from the avionics box to the firewall	Left	Right
224. When installing avionics that extend close to the firewall, it is recommended that aluminum brackets be made and installed from the avionics box to the firewall. This will minimize vibrations and damage to instrument panel		
225. Inspect throttle and mixture cables behind instrument panel. Check that they are tight at panel.		
226. Inspect cabin heat and carburetor heat cables behind instrument panel. Check that they are tight at panel.		
227. Inspect fuel primer lines behind instrument panel. Check for clearances and safety ties. Check for fuel leaks.		
228. Inspect tightness of primer at instrument panel.		

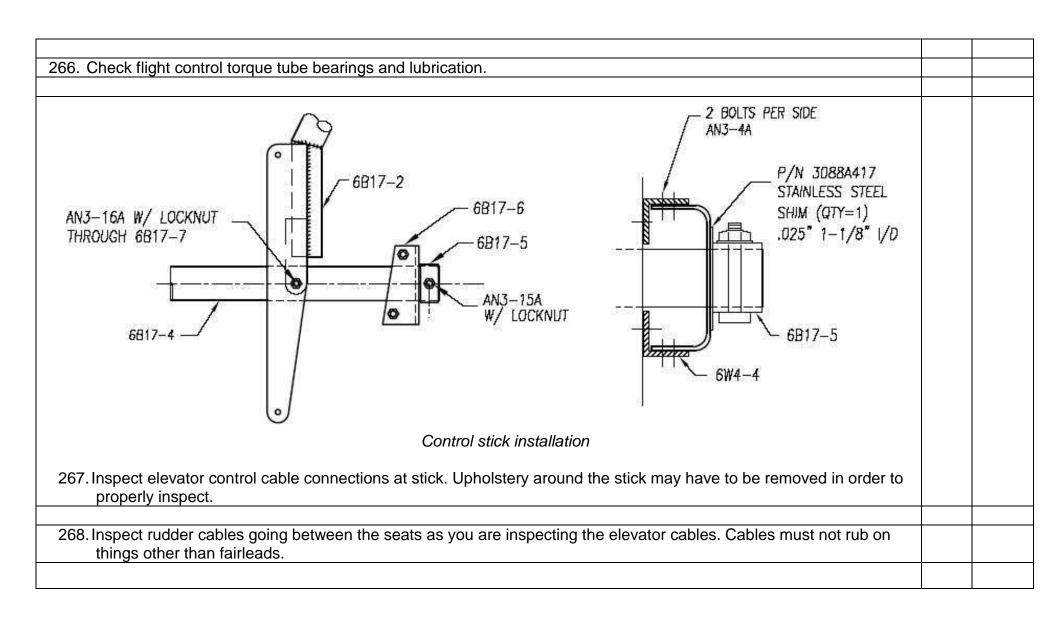
Ruc	dder pedal area	Left	Right
	Brake Pedal Filler Screw Parker Hannifin 10-54 Master Cylinder Brake Lines Typical brake line system		
229.	Inspect Rudder Pedal master cylinders. Check for leaks, safety, etc.		
230.	Inspect (the optional) rudder pedal slave cylinder. Check for leaks, safety, etc.		
231.	Inspect cylinder cotter pins, top and bottom, and jam nuts. Cylinders must move freely.		
232.	Inspect brake lines and safety ties. Check that lines are not contacting any sharp edges.		
233.	Inspect RUDDER pedal center "green" nylon bearing and SL bolts going through the floor. Maintain proper lubrication on the bearing.		
234.	Inspect side rudder pedal bearings and SL bolts going through the floor. Maintain proper lubrication on the bearings.		

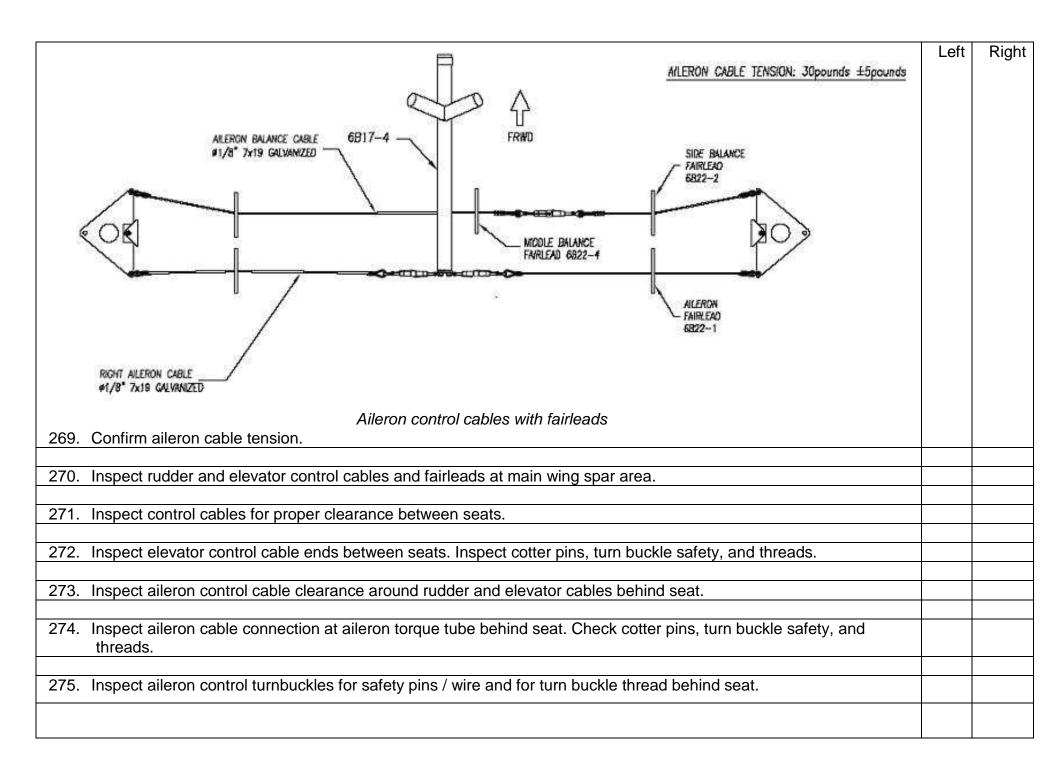




243.	Inspect fuel selector valve. Check operation and installation screws.		
	FORWARD TO PUMP GASCOLATOR WING TANK 3 WAY FUEL SELECTOR LEFT — RIGHT— OFF	Left	Right
244.	NON VENTED FILLER CAP LEFT TANK 6K1-1 LEFT TANK VENT DRAIN VALVE CASCOLATOR DRAIN VALVE Fuel system Inspect gascolator. Check that silicone is used to seal around gascolator and bottom skin.		
245.	Inspect fuel line going to gascolator in front of seats.		
246.	Inspect fuel line from gascolator to firewall. Make sure that it does not contact control cables, rudder pedals, or any sharp edges.		
247.	Inspect fuel fitting at firewall. Check for fuel leaks.		
248.	Note that in order to not have water accumulate in the fuel lines, there cannot be any low points in the fuel lines. The lowest points are at the drains.		
249.	Inspect fuel line safety clamps and safety wire. Check that clamps and fuel lines are tight on barbed fittings.		
250.	Inspect grommets going through main wing spar.		

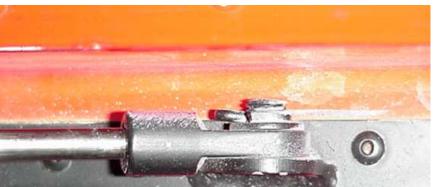
Cabin ,	seats, seatbelts, baggage area		
251.	Inspect LEFT and RIGHT seat back and bottom condition. Check seat bottom Velcro at front spar.	Left	Right
252.	Inspect seatbelt attachment between seats.		
253.	Inspect seatbelt attachment on side at fuselage. Check bolt and nut.		
254.	Inspect seatbelt attachment in baggage area. Check bolts and nuts.		
255.	Inspect fitting of seatbelt when sitting in seat. Sit in seat and put the seatbelts on and remove.		
256.	Inspect cabin lights baggage area. Check for operation.		
257.	Inspect antenna installation and cables.		
258.	Inspect ELT and that battery life time placard is installed with expiration date.		
259.	Inspect electrical wiring for condition, security, routing on RIGHT side of fuselage in the cabin area.		
260.	Inspect electrical wiring for condition, security, routing on LEFT side of fuselage in the cabin area.		
261.	Check the fire extinguisher (and first aid kit).		
262.	Inspect electric wires between wing and fuselage. Check grommets and wires should not contact any sharp edges.		
Contro	Controls		Right
	ect straightness of stick(s) with the ailerons in the neutral position. Stick must not get too close to instrument when stick is in full forward position.		
264. Insp	ect stick(s) and PPT. Check that stick (s) handle grips do not move.		
	ect stick(s) for free movement sideways and front-rear. Upholstery or arm rest must not limit stick movement. e sure that moving the control stick to all control limits nothing is touching the control cables or stick.		





CAN	OPY	Left	Right
276.	Spring holding canopy latch 650 canopy latching system inspect and operate Latches from inside the aircraft. It is important that you can properly close the latches when seated.		
270.	Lateries from inside the aircraft. It is important that you can properly close the lateries when seated.		
277.	Once the canopy is closed, push up and sideways on the canopy to see if it is truly closed. Also do this from outside the aircraft.		
278.	Inspect canopy seals.		
210.	mopost danopy deals.		
279.	Inspect general condition of canopy.		
280.	Inspect side of canopy at front hinges and bolts.		
281.	Inspect side of canony installation, flashings, and air years		
201.	Inspect side of canopy installation, flashings, and air vents.		
282.	Inspect gas strut area. Check top and bottom fittings and cotter pins.		





283. Canopy gas strut installation with cotter pins. 601 XL and 650



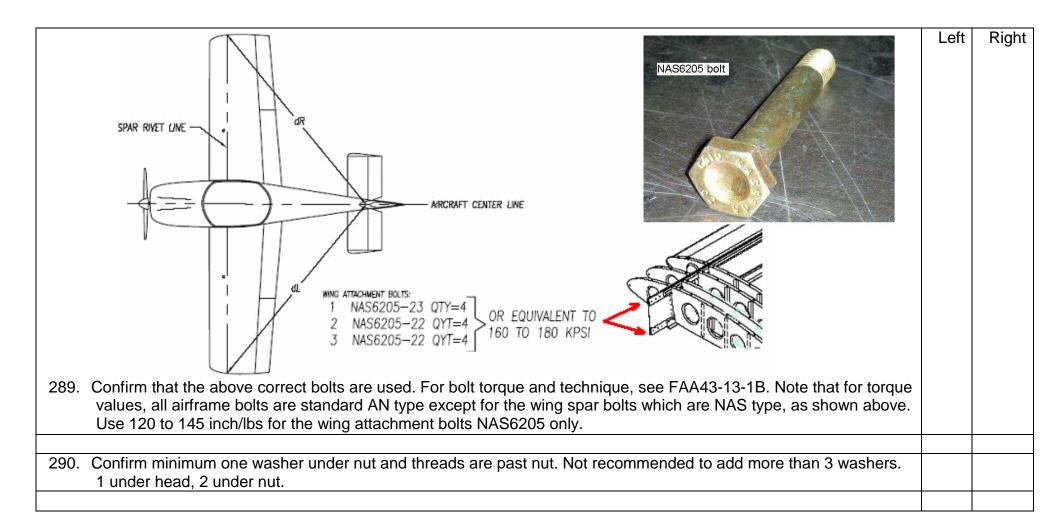


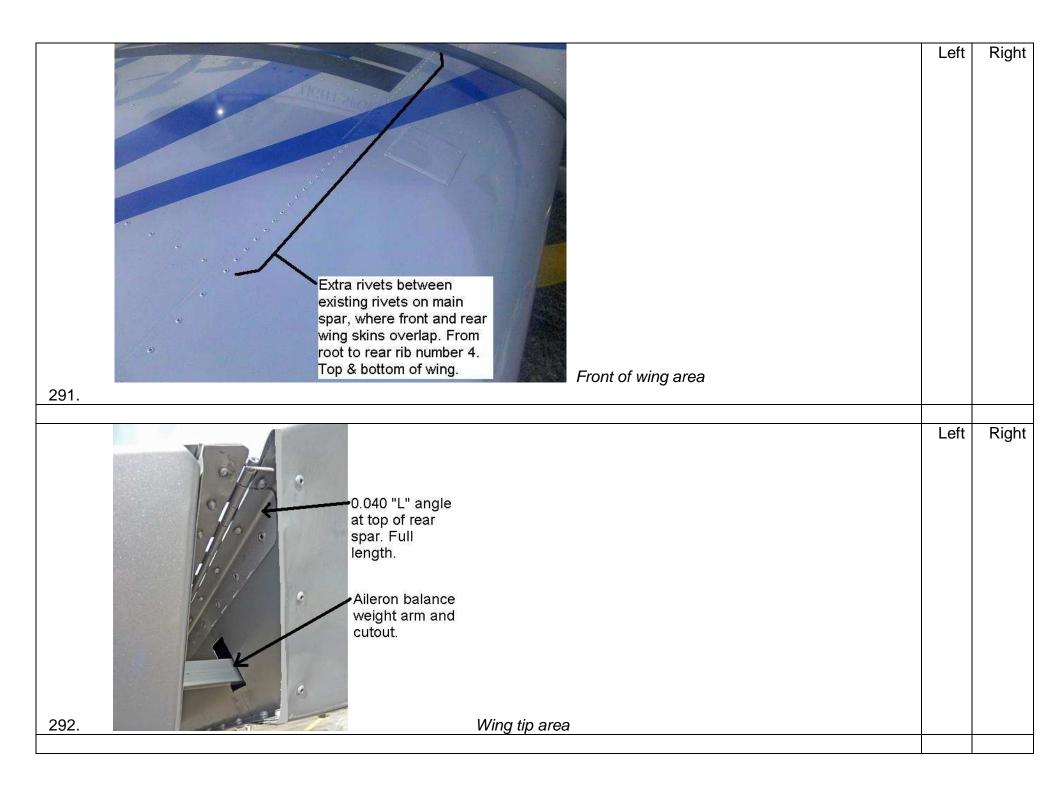
284. Details of the older type 601 XL canopy latching system. Must have positive double locking

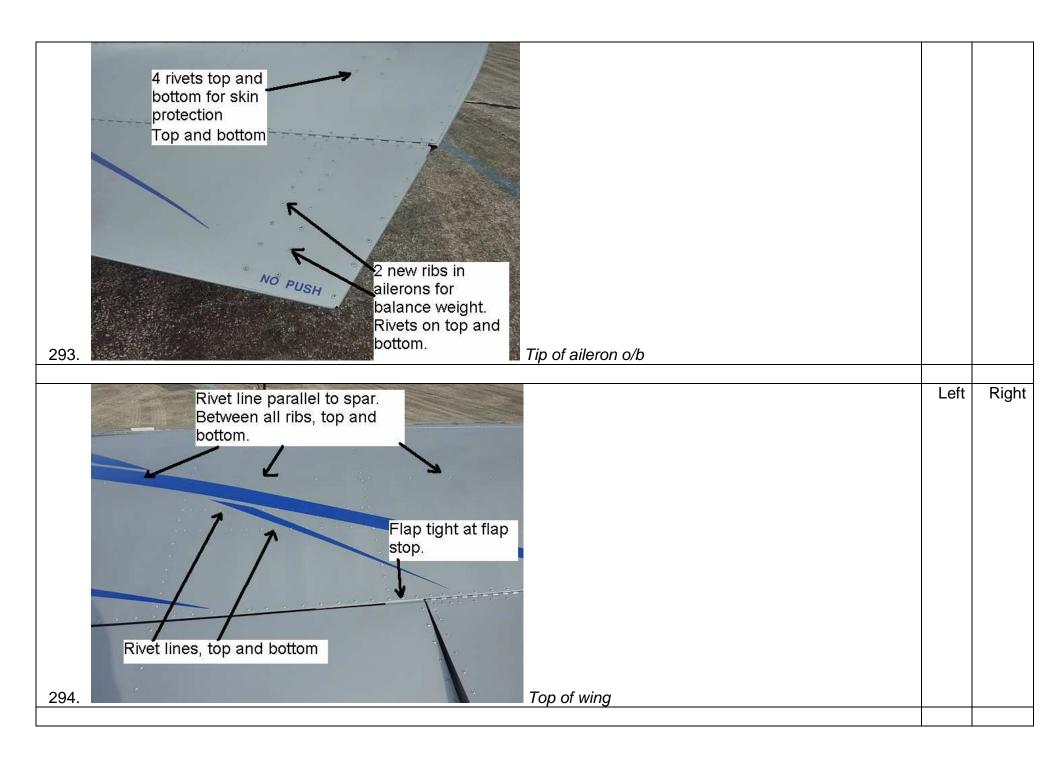
Left

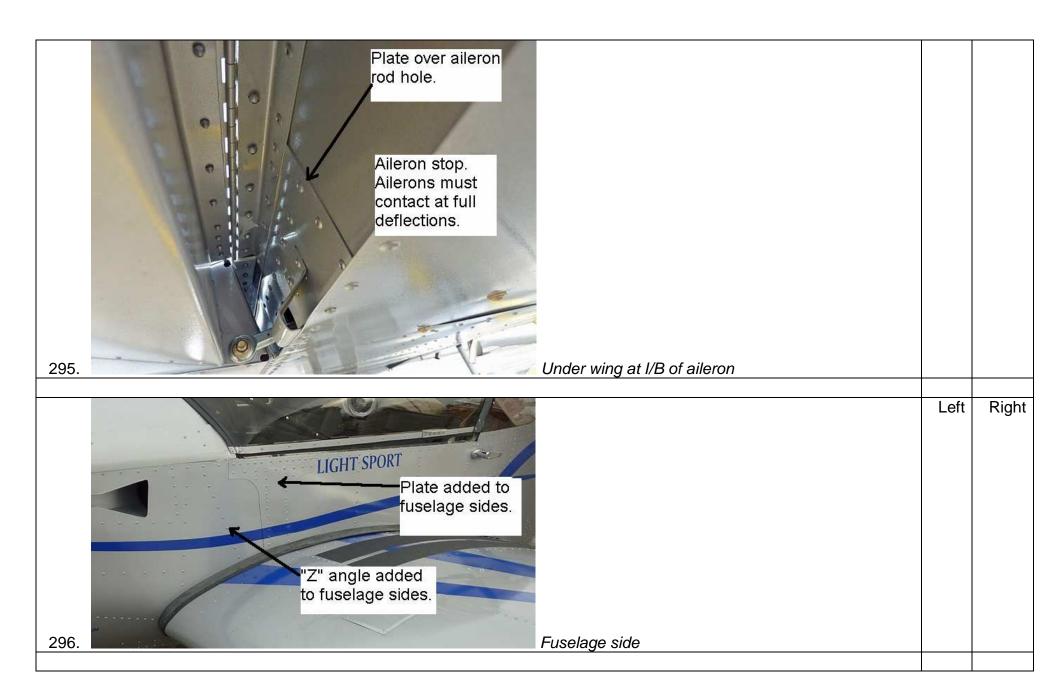
Right

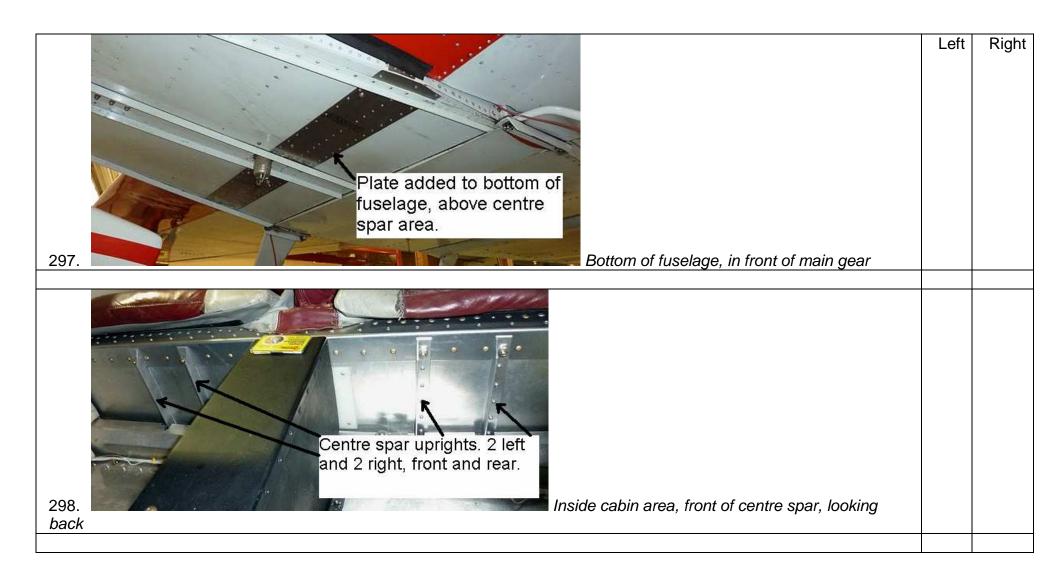
Inst	ument panel	
285.	Make sure the colored arcs on your ASI all properly indicate the correct speed limits (CAS). See Appendix 1 of the AMD Service Manual. Incorrect markings could cause you to unintentionally exceed aircraft limitations. Before flying your aircraft, know all the flight limitations including VA. Mark VA on your airspeed indicator (or panel). Remember that all aircraft limitations should be included in your flight manual (POH).	
286.	Confirm instrument markings and warning notices such as NO SMOKING, NO SPINS, NO AEROBATICS, etc.	
287.	Inspect all electrical breakers and markings. Make sure that breaker sizes are as per electrical drawings and manufacturers recommendations.	
INSPECT	ION OF COMPLETED UPGRADE KIT	
288.	confirm that the airframe upgrade has been completed. For details of the upgrade, see: http://www.zenithair.com/zodiac/xl/data/6-ZU-DEC9.pdf and http://zenithair.com/news/ntsb-astm-4-09a.html As per drawings 6-ZU-1, 6-ZU-2, 6-ZU-3, 6-ZU-4 & LAA balanced ailerons. For full inspection use the drawings. Not all upgrade parts are shown in the following photos. To be used for quick check only.	

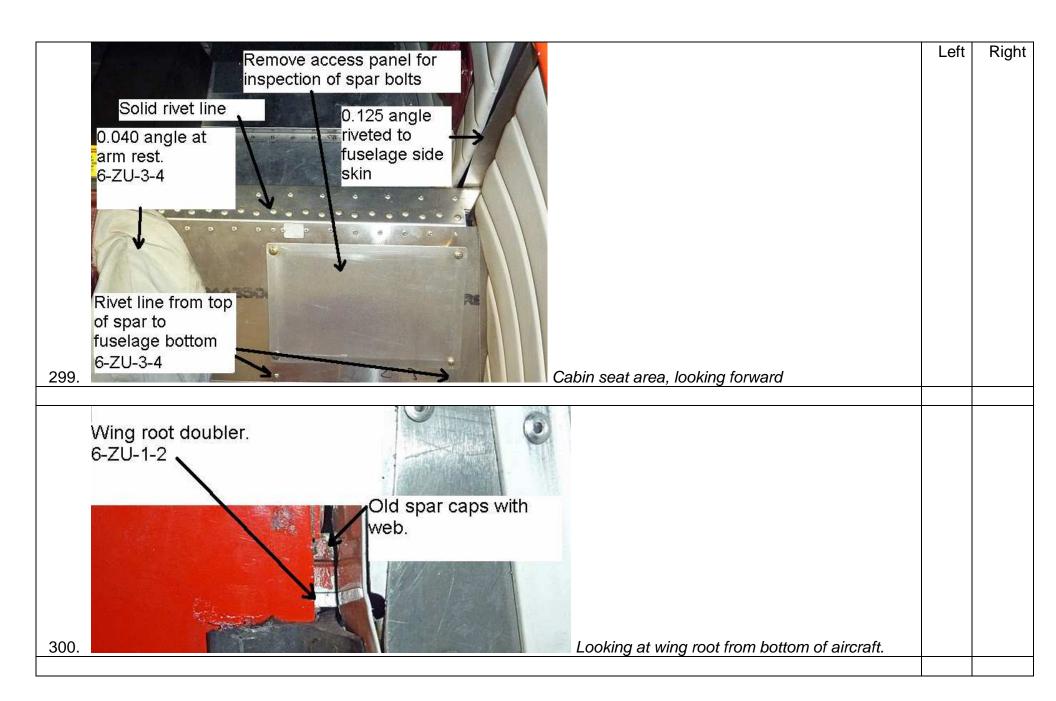


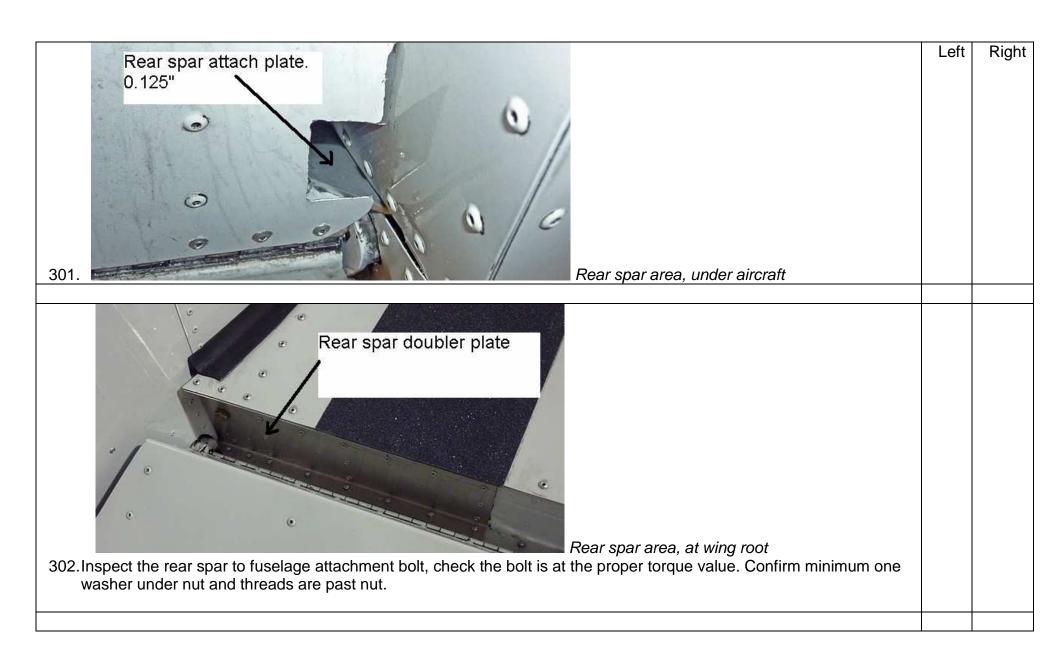


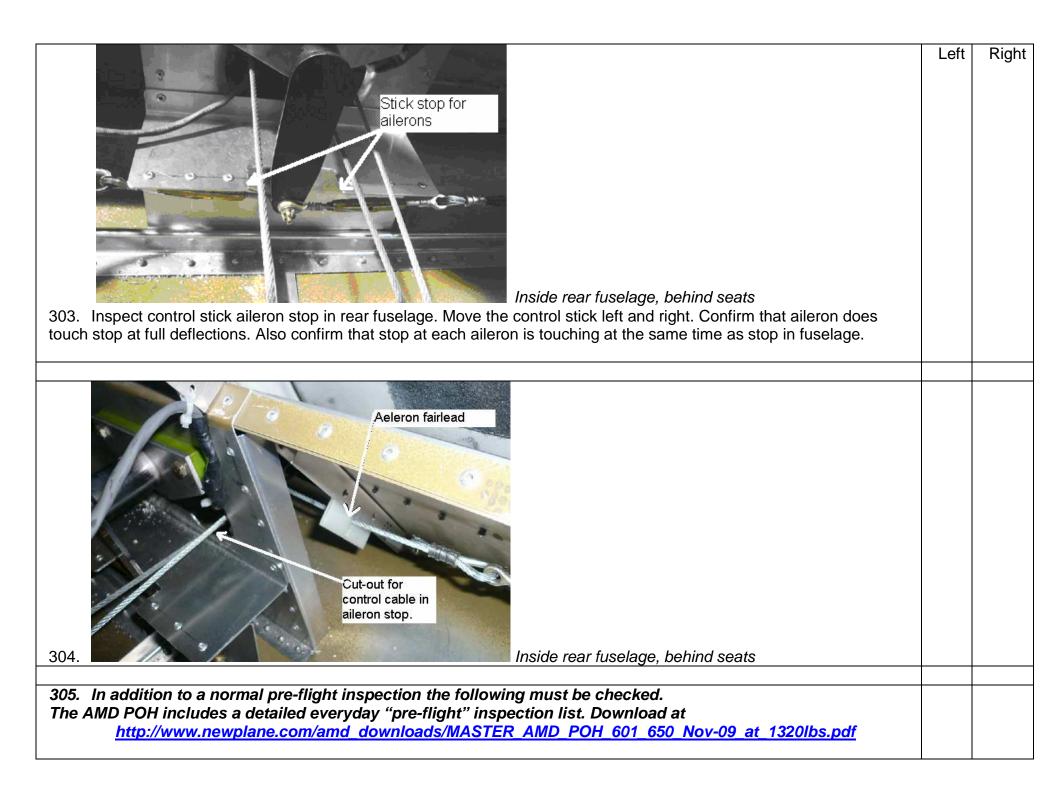












306. Check all control cable tensions by hand. If in doubt about the cables being properly tensioned, check them with a calibrated cable tension gauge. If necessary, adjust the cable tension to the proper values. If unsure, get a licensed mechanic to check or adjust the cables. WARNING: Do not fly with control cables that are too loose or too tight	
307. Check for free play in the aileron control system. When holding the control stick stationary, beyond minor flexing, there should be no free play in the system when gently pushing up or down on the aileron trailing edges. Note that if the ailerons are not locked when the aircraft is parked outside, wind can damage the system. WARNING: Do not fly with loose, sloppy or damaged controls.	
308. Check the flaps for positive firm contact with the flap stops when in the "up" (retracted) position. Check for movement by gently pushing up and down on the flap trailing edges. WARNING: The flap system can get damaged if the flaps are stepped on. Do not fly with loose or damaged flaps.	
309. When placing luggage/items in the wing lockers, baggage area behind seats, or in other places, check that it is well secured before take-off. WARNING: Do not fly with loose luggage or other items in the aircraft.	
310. Check that your canopy closes and latches properly on both sides. If in doubt, add a secondary latching system as recommended by the Australian CAA. If your canopy does open in flight, keep your hands on the controls, lower your speed to approximately 60 knots, keep flying the aircraft and land as soon as practicable. WARNING: Do not try to close the canopy in flight: Fly the aircraft!	
311. Note: "Self checkout" is not recommended. Before flying the aircraft, make sure that you have been properly checked out and that you are familiar with all flight limitations and the handling characteristics (feel and responsiveness) of the controls. Remember that, as with any light aircraft, if you encounter unexpected turbulence while cruising, ride it out rather than fight it – and slow down!	
312. REMINDER TO PILOTS: Always get to know a new aircraft you plan to fly before taking the controls (this applies to any aircraft). A thorough condition inspection of the aircraft is essential; learn the operating limitations from the POH (and respect them); and get properly checked out to be familiar with the aircraft's handling qualities.	
313. AMD Safety Alerts, Service Bulletins and notices:	

http://www.newplane.com/amd/CH2000_Service.html	
Disclaimer: The above checklist may not properly represent your aircraft. Data and information appearing in this checklist are for educational purposes only. The author is not responsible for any injury or damage resulting from use or	
reliance of this checklist. For all up-to-date information and documents including drawings and photos, you must contact the aircraft manufacturer. This checklist is not being updated on a regular basis and it therefore not be assumed that any of the above properly represents any aircraft.	