

This annual inspection checklist is supplied courtesy of Cecil Rives. Please advise us of any suggested changes or additions.

**Airframe:**

## Remove:

1. Aileron bellcrank access panels (L & R).
2. Landing gear nut access panels (L & R).
3. Landing gear and flap torque tube access panels (L & R).
4. Main landing gear wheel covers (L & R).
5. Autopilot servo access panel - right wing.
6. Left and right seats.
7. Cockpit floorboard at control stick (L & R).
8. Center console covers.
9. Rear bulkhead.
10. Luggage compartment deck.
11. Rudder pulley access panels (L & R).
12. Rudder and elevator hinge fairings.
13. Wing hinge fairings.
14. Access panel in main gear wheel well, if installed (L & R).
15. Elevator trim tab access panel.
16. Engine cowling.

## Inspect:

Skin - check for deterioration, distortion and other evidence of failure or defects.

## At Left Wing:

1. Outboard aileron hinge - Tri-flow oil, check for defects.
2. Outboard aileron hinge to aft wing spar - Nuts tight.
3. Outboard aileron hinge to aileron spar - Nuts tight.
4. Center aileron hinge - Tri-flow oil, check for defects.
5. Center aileron hinge and control arm to aileron spar - Tri-flow oil on spherical bearing, nuts tight.
6. Outboard center aileron hinge to aft wing spar - Nuts tight.
7. Inboard center aileron hinge to aft wing spar - Nuts tight.
8. Aileron stop - Nut tight.
9. Aileron/flap hinge - Tri-flow oil, check for defects, nuts tight.
10. Aileron/flap hinge to aft wing spar - Nuts tight.
11. Inboard aileron hinge to aileron spar - Nuts tight.
12. Outboard flap hinge to flap spar - Nuts tight.
13. Inboard flap hinge - Tri-flow oil, check for defects.
14. Inboard flap hinges (2) to aft wing spar - Nuts tight.
15. Inboard flap hinge and control arm to flap spar - Tri-flow oil on spherical bearing, nuts tight.
16. Upper aileron bellcrank support to main wing spar - Nuts tight.
17. Lower aileron bellcrank support to main wing spar - Nuts tight.
18. Aileron bellcrank - Tri-flow oil on pivot bolt and spherical bearing.
19. Forward aileron cable to aileron bellcrank - Tri-flow oil.
20. Aft aileron cable to aileron bellcrank - Tri-flow oil.
21. Aileron bellcrank to aileron pushrod - Tri-flow oil.
22. Aileron pushrod to control arm and hinge - Tri-flow oil.
23. Aileron - Check for smooth operation.
24. Aileron bellcrank - Check for smooth operation.
25. Flap torque tube at pivot in wing - Tri-flow oil.
26. Flap pushrod rod end bearing to flap torque tube - Tri-flow oil.

27. Flap pushrod to control arm and hinge on flap - Tri-flow oil.
28. Fuel vent - Check clear.

**At Right Wing:**

1. Outboard aileron hinge - Tri-flow oil, check for defects.
2. Outboard aileron hinge to aft wing spar - Nuts tight.
3. Outboard aileron hinge to aileron spar - Nuts tight.
4. Center aileron hinge - Tri-flow oil, check for defects.
5. Center aileron hinge and control arm to aileron spar - Tri-flow oil on spherical bearing, nuts tight.
6. Outboard center aileron hinge to aft wing spar - Nuts tight.
7. Inboard center aileron hinge to aft wing spar - Nuts tight.
8. Aileron stop - Nut tight.
9. Aileron/flap hinge - Tri-flow oil, check for defects.
10. Aileron/flap hinge to aft wing spar - Nuts tight.
11. Inboard aileron hinge to aileron spar - Nuts tight.
12. Outboard flap hinge to flap spar - Nuts tight.
13. Inboard flap hinge - Tri-flow oil, check for defects.
14. Inboard flap hinges (2) to aft wing spar - Nuts tight.
15. Inboard flap hinge and control arm to flap spar - Tri-flow oil on spherical bearing, nuts tight.
16. Upper aileron bellcrank support to main wing spar - Nuts tight.
17. Lower aileron bellcrank support to main wing spar - Nuts tight.
18. Aileron bellcrank - Tri-flow oil on pivot bolt and spherical bearing.
19. Forward aileron cable to aileron bellcrank - Tri-flow oil.
20. Aft aileron cable to aileron bellcrank - Tri-flow oil.
21. Aileron bellcrank to aileron pushrod - Tri-flow oil.
22. Aileron pushrod to control arm and hinge - Tri-flow oil.
23. Aileron - check for smooth operation.
24. Aileron bellcrank - check for smooth operation.
25. Flap torque tube at pivot in wing - Tri-flow oil.
26. Flap pushrod rod end bearing to flap torque tube - Tri-flow oil.
27. Flap pushrod to control arm and hinge on flap - Tri-flow oil.
28. Fuel vent - Check clear.

**At Elevator:**

1. Elevator hinge, L.H. - Tri-flow oil.
2. Elevator hinges, L.H. (2) to main stabilizer spar - Nuts tight.
3. Elevator hinge, L.H. , to elevator spar - Nuts tight.
4. Elevator hinge, center - Tri-flow oil.
5. Elevator hinges, center (2), to main fin and elevator spars - Nuts tight.
6. Elevator hinge, center , to elevator spar - Nuts tight.
7. Elevator hinge, R.H., - Tri-flow oil.
8. Elevator hinges, R.H. (2), to main stabilizer spar - Nuts tight.
9. Elevator hinge, R.H., to elevator spar - Nuts tight.
10. Elevator control arm to upper elevator cable - Tri-flow oil.
11. Elevator control arm to lower elevator cable - Tri-flow oil.
12. Elevator control movement - Check for smooth operation.

**At Elevator Trim Tab:**

1. Control cable at access port - Clamp nuts tight.
2. Control cable to trim tab control arm - Tri-flow oil.
3. Trim tab control arm to trim tab - Check screws (3) tight.
4. Elevator trim tab hinges (2) - Tri-flow oil, screws (12) tight.

5. Elevator trim tab - Check for smooth operation.

At Front Fin Spar (Access Port):

1. Rudder cable pulley - Rotate 90°, check for smooth operation.
2. Rudder cable pulley bracket to front fin spar - Nuts tight.
3. Tail light and tail strobe light terminal block - Check connections.

At Rudder:

1. Upper rudder hinge - Tri-flow oil.
2. Upper rudder hinge to main fin spar - Nuts tight.
3. Upper rudder hinges (2) to rudder spar - Nuts tight.
4. Lower rudder hinge - Tri-flow oil.
5. Lower rudder hinges (2) to main fin spar - Nuts tight.
6. Rudder control arm to rudder spar - Nuts tight.
7. Rudder control arm to R.H. rudder cable - Tri-Flow oil.
8. Rudder control arm to L.H. rudder cable - Tri-flow oil.
9. Rudder control movement - Check for smooth operation.

At Wing Tips and Rudder:

1. Navigation and strobe lights - Check for proper operation.

At Battery Compartment:

1. Terminals - Check for tightness and cleanliness.
2. Battery - Check for security of mount.

In Cockpit:

1. Control stick, L.H., pivot bolt - Tri-flow oil.
2. Control stick, L.H., to control stick connecting rod - Tri-flow oil.
3. Control stick, L.H., to forward aileron cable - Tri-flow oil.
4. Forward aileron cable, L.H. - Check tension: 45 lbs.  $\pm$ 2 lbs.
5. Aft aileron cable - Check tension: 45 lbs.  $\pm$ 2 lbs.
6. Control stick torsion tube pivot point, L.H. - Tri-flow oil.
7. Control stick supports (2), L.H. - Nuts tight.
8. Control stick, R.H., pivot bolt - Tri-flow oil.
9. Control stick, R.H., to control stick connecting rod - Tri-flow oil.
10. Control stick, R.H., to forward aileron control cable - Tri-flow oil.
11. Forward aileron cable, R.H. - Check tension: 45 lbs.  $\pm$ 2 lbs.
12. Control stick torsion tube pivot point, R.H. - Tri-flow oil.
13. Control stick supports (2), R.H. - Nuts tight.
14. Control stick torsion tube to elevator pushrod - Tri-flow oil.
15. Control sticks - Check for smooth operation.
16. Elevator trim tab control cable to jackscrew - Tri-flow oil.
17. Elevator trim tab screwjack threads - Tri-flow oil.
18. Elevator trim tab angle drive to mounting bracket - Nuts tight.
19. Elevator trim tab control cable to landing gear gearbox - Nuts tight.
20. Elevator trim tab control - Check for smooth operation.
21. Left rudder pedal torque tube, L.H. pivot bolt - Tri-flow oil.
22. Rudder pedal torque tube support, left outboard - Nuts tight.
23. Right rudder pedal torque tube, L.H. pivot bolt - Tri-flow oil.
24. Rudder pedal torque tube support, left inboard - Nuts tight.
25. Brake pedal, L.H. - Tri-flow oil.
26. Brake pedal, R.H. - Tri-flow oil.
27. Master cylinder, L.H., upper bolt - Tri-flow oil.
28. Master cylinder, L.H., lower bolt - Tri-flow oil.

29. Master cylinder, R.H. upper bolt - Tri-flow oil.
30. Master cylinder, R.H. lower bolt - Tri-flow oil.
31. R.H. rudder pedal torque tube to rudder cable - Tri-flow oil.
32. R.H. rudder pedal torque tube to nose gear steering cable - Tri-flow oil.
33. Brake pedals - Check for smooth operation.
34. Left rudder pedal torque tube, R.H. pivot bolt - Tri-flow oil.
35. Rudder pedal torque tube support, right inboard - Nuts tight.
36. Right rudder pedal torque tube, R.H. pivot bolt - Tri-flow oil.
37. Rudder pedal torque tube support, right outboard - Nuts tight.
38. L.H. rudder pedal torque tube to rudder cable - Tri-flow oil.
39. L.H. rudder pedal torque tube to nose gear steering cable - Tri-flow oil.
40. Rudder pedals - Check for smooth operation.
41. Pilot and passenger seat tracks - Tri-flow oil when seats reinstalled.
42. Pilot and passenger sholder belt support fittings to fuselage - Check condition.
43. Pilot and passenger outboard seat belt fitting to fuselage - Check condition.
44. Pilot and passenger outboard seat belt fitting to seat belt cable - Check condition.
45. Pilot and passenger outboard seat belt to seat belt cable - Check condition.
46. Pilot and passenger inboard seat belt fitting to frame #6 - Check condition.
47. Pilot and passenger inboard seat belt cable to inboard seat belt fitting - Check condition.
48. Pilot and passenger inboard seat belt to seat belt cable - Check condition.
49. Left canopy roller assembly in canopy track - Tri-flow oil, check for smooth operation.
50. Left aft lower and upper rollers at canopy roller support - Tri-flow oil, check for smooth operation.
51. Right canopy roller assembly in canopy track - Tri-flow oil, check for smooth operation.
52. Right aft lower and upper rollers at canopy roller support - Tri-flow oil, check for smooth operation.
53. Canopy latch handle to canopy frame - Tri-flow oil.
54. Canopy latch handle to canopy latch hook - Tri-flow oil.
55. Canopy latch mechanism - Check for positive lock action.
56. Canopy - Check for cracks, security of lock and track mechanisms.
57. Front fuel tank - Check tank and connections for signs of leaks. Drain tank and remove and clean finger strainer.
58. Fuel selector valve - Check for signs of leaks.
59. Cockpit - Clean, make sure no objects are present that might foul controls.
60. Instruments - Check condition.
61. Instrument panel - Check mounting, labels, loose wiring , general condition.
62. Magnetic compass - Check accuracy.
63. Vacuum system regulator valve - Replace filter.
64. Vacuum system inlet valve - Replace filter (500 hours).
65. Wiring - Check for improper routing, insecure mounting and other defects.

**In Cockpit at Throttle Quadrant:**

1. Throttle control arm to throttle control cable - Tri-flow oil.
2. Throttle control cable to bracket on nose wheel bay cover - Nut tight.
3. Prop control arm to prop control cable - Tri-flow oil.
4. Prop control cable to bracket on nose wheel bay cover - Nut tight.
5. Mixture control arm to mixture control cable - Tri-flow oil.
6. Mixture control cable to bracket on nose wheel bay cover - Nut tight.
7. Throttl ®e control - Check for smooth operation.
8. Prop control - Check for smooth operation.

9. Mixture control - Check for smooth operation.

In Cockpit at L.H. Throttle:

1. L.H. throttle arm to pushrod - Tri-flow oil.
2. L.H. throttle pushrod to torque tube - Tri-flow oil.
3. L.H. throttle torque tube at left end - Tri-flow oil.
4. L.H. throttle torque tube at right end - Tri-flow oil.
5. L.H. throttle torque tube to center pushrod - Tri-flow oil.
6. Center pushrod to throttle control arm - Tri-flow oil.

In Cockpit at Frame #3:

1. Rudder cable pulley, L.H., - Rotate 90°, check for smooth operation.
2. Rudder cable pulley bracket, L.H., to front wing spar - Nuts tight.
3. Rudder cable pulley, R.H. - Rotate 90°, check for smooth operation.
4. Rudder cable pulley bracket, R.H., to front wing spar - Nuts tight.

In Cockpit at Frame #5:

1. Rudder cable pulley, L.H. - Rotate 90°, check for smooth operation.
2. Rudder cable pulley bracket, L.H., to fuselage frame - Nuts tight.
3. Rudder cable pulley, R.H. - Rotate 90°, check for smooth operation.
4. Rudder cable pulley bracket, R.H., to fuselage frame - Nuts tight.
5. Flap torque tube to flap torque tube support, pivot bolt - Tri-flow oil.
6. Flap torque tube support to fuselage bottom - Nuts tight.
7. Flap torque tube to flap actuator - Tri-flow oil.
8. Flap actuator to flap actuator supports - Tri-flow oil.
9. Flap actuator supports (2) to fuselage bottom - Nuts tight.
10. Flaps - Check for smooth operation.
11. Inverted header tank - Check for leaks, security of mounting.

In Aft Cockpit (Frame #6):

1. Elevator pushrod to elevator bellcrank - Tri-flow oil.
2. Elevator bellcrank pivot bolt - Tri-flow oil.
3. Elevator bellcrank supports (2) - Nuts tight.
4. Elevator bellcrank to upper elevator cable - Tri-flow oil.
5. Elevator bellcrank to lower elevator cable - Tri-flow oil.
6. Upper elevator cable - Check tension: 45 lbs.  $\pm$ 2 lbs.
7. Lower elevator cable - Check tension: 45 lbs.  $\pm$ 2 lbs.
8. Elevator bellcrank, pushrod and cables - Check for interference and smooth operation.
9. Aft fuel tank - Check tank and connections for signs of leaks, drain tank and remove and clean finger strainer.
10. ELT - Replace batteries if appropriate, check operation, make logbook entry.
11. Rudder cable, L.H. - Check tension: 38 lbs.  $\pm$ 2 lbs.
12. Rudder cable, R.H. - Check tension: 38 lbs.  $\pm$ 2 lbs.
13. Wiring - Check for misrouting, fraying, loose connections.

## Landing Gear

At Nose Gear:

1. Wheel bearings - Remove, clean, repack and reinstall - Mobil 28 (red).
2. Axle - Safety screw tight.
3. Axle nut - Safety screw tight.
4. Lower torque link to eyebolts on nose gear fork - Mobil 28 (red).
5. Lower torque link to upper torque link - Mobil 28 (red).
6. Upper torque link to nose gear upper cylinder - Mobil 28 (red).

7. Nose gear upper ring nut - Safety screw tight.
8. Nose gear trunnion (left and right sides) to engine mount - Mobil 28 (red).
9. Nose gear trunnion to lower drag strut - Mobil 28 (red).
10. Lower drag strut to upper drag strut - Mobil 28 (red).
11. Upper drag strut to drag strut support (left and right sides) - Mobil 28 (red).
12. Nose gear screwjack end fitting to screwjack sleeve - Mobil 28 (red).
13. Nose gear screwjack (male threads) - AeroShell 17 (black).

At Main Landing Gear Nut Access Port, Left Wing:

1. Forward mount fitting - Nuts (4) tight.
2. Main landing gear at forward mount fitting - Mobil 28 (red).

At Main Landing Gear, Left Wing:

1. Main landing gear aft fitting - Nuts (4) tight, Mobil 28 (red).
2. Main landing gear leg to landing gear arm - Mobil 28 (red).
3. Main landing gear leg to upper end of oleo strut - Mobil 28 (red).
4. Main landing gear arm to lower end of oleo strut - Mobil 28 (red).
5. Main landing gear leg to side load strut pin - Nut tight.
6. Main landing gear leg to lower side load strut - Mobil 28 (red).
7. Lower side load strut to upper side load strut - Mobil 28 (red).
8. Upper side load strut to side load fitting pin - Mobil 28 (red).
9. Side load fitting pin - Nut tight.
10. Side load fitting - Nuts (4) tight.
11. Brake on landing gear arm - Nuts (4) tight, inspect brake lines and brake pads.
12. Wheel bearings - Remove, clean, repack and reinstall - Mobil 28 (red).
13. Screwjack end fitting to upper side load strut - Mobil 28 (red).
14. Screwjack end fitting to screwjack sleeve - Mobil 28 (red).
15. Screwjack (male threads) - AeroShell 17 (black).
16. Landing gear leg to gear door pushrod - Tri-flow oil.
17. Gear door pushrod to gear door fittings - Tri-flow oil.
18. Gear door fittings on gear door - Nuts (4) tight.
19. Gear door to wing - Screws tight.
20. Gear door hinge - Tri-flow oil.
21. Wheel well door hinge to fuselage - Screws tight.
22. Wheel well door hinge - Tri-flow oil.
23. Pushrod fitting on wheel well door - Nuts (4) tight.
24. Lower inboard wheel well door pushrod to fitting on door - Tri-flow oil.
25. Upper inboard wheel well door pushrod to fitting in fuselage - Tri-flow oil.
26. Fuselage fitting for wheel well door pushrod - Nuts (2) tight.
27. Junction of three wheel well door pushrods - Tri-flow oil.
28. Outboard wheel well door pushrod to screwjack sleeve - Tri-flow oil.

At Main Landing Gear Nut Access Port, Right Wing:

1. Forward mount fitting - Nut tight.
2. Main landing gear at forward mount fitting - Mobil 28 (red).

At Main Landing Gear, Right Wing:

1. Main landing gear aft fitting - Nuts (4) tight, Mobil 28 (red).
2. Main landing gear leg to landing gear arm - Mobil 28 (red).
3. Main landing gear leg to upper end of oleo strut - Mobil 28 (red).
4. Main landing gear arm to lower end of oleo strut - Mobil 28 (red).
5. Main landing gear leg to side load strut pin - Nut tight.
6. Main landing gear leg to lower side load strut - Mobil 28 (red).
7. Lower side load strut to upper side load strut - Mobil 28 (red).

8. Upper side load strut to side load fitting pin - Mobil 28 (red).
9. Side load fitting pin - Nut tight.
10. Side load fitting - Nuts (4) tight.
11. Brake on landing gear arm - Nuts (4) tight, inspect brake lines and brake pads.
12. Wheel bearings - Remove, clean, repack and reinstall - Mobil 28 (red).
13. Screwjack end fitting to upper side load strut - Mobil 28 (red).
14. Screwjack end fitting to screwjack sleeve - Mobil 28 (red).
15. Screwjack (male threads) - AeroShell 17 (black).
16. Landing gear leg to gear door pushrod - Tri-flow oil.
17. Gear door pushrod to gear door fitting - Tri-flow oil.
18. Gear door fittings on gear door - Nuts (4) tight.
19. Gear door hinge to wing - Screws tight.
20. Gear door hinge - Tri-flow oil.
21. Wheel well door hinge to fuselage - Screws tight.
22. Wheel well door hinge - Tri-flow oil.
23. Pushrod fitting on wheel well door - Nuts (4) tight.
24. Lower inboard wheel well door pushrod to fitting on door - Tri-flow oil.
25. Upper inboard wheel well door pushrod to fitting in fuselage - Tri-flow oil.
26. Fuselage fitting for wheel well door pushrod - Nuts tight.
27. Junction of three wheel well door pushrods - Tri-flow oil.
28. Outboard wheel well door pushrod to screwjack sleeve - Tri-flow oil.

**All Landing Gear:**

1. Retraction test - Observe action and fit of gear and doors.
2. Tires - Inspect and replace if necessary, check pressure.
3. Oleo struts - Check fluid level (deflate first!), inflate to proper pressure.

**At Wheel Well Access Ports:**

1. Landing gear gearbox - Grease with AeroShell 17 (black).
2. Brake lines - Check condition.
3. Screwjack universal joints - Check condition.

**Engine, Propeller and Spinner****Propeller and Spinner:**

1. Prop to engine crankshaft - Studs (6) torqued and safetied.
2. Prop - Dress out pits and scratches, inspect for cracks, service per manufacturers service bulletins.
3. Spinner mounting plate to prop hub - Attachment bolts tight, check for cracks.
4. Spinner mounting plates - Attachment screws tight, check for cracks.

**At Engine Compartment:**

1. Engine and accessories - Check for fluid leaks and sources of same.
2. Engine and engine compartment - Clean with suitable cleaners, plastic bag vacuum pump.
3. Engine mount to firewall - Check for cracks, tightness of attachment hardware.
4. Engine mount to engine - Check mounting hardware and condition of Lord mounts (replace every 500 hours).
5. Baffling - Check condition of seals, tightness of attachment hardware, cracks.
6. Ignition lead supports (L & R) in aft baffle - Check condition.
7. Left front and left aft baffle assemblies to intercylinder baffles - Check for springs (4) in place, condition.
8. Right front and right aft baffle assemblies to intercylinder baffles - Check for springs (4) in place, condition.

9. Oil cooler - Check condition, cooling fins clear, check lines and fittings for leaks.
10. Cowling supports - Check condition and tightness of attachment hardware.
11. L.H. and R.H. cowling door hinge pins - Tri-flow oil.
12. L.H. and R.H. cowling door wing fasteners - Tri-flow oil.
13. L.H. and R.H. cowling door wing fastener receptacles - Tri-flow oil.
14. Fuel line, firewall to gascolator - Check condition, signs of leakage.
15. Fuel line, gascolator to electric fuel pump - Check condition, signs of leakage.
16. Fuel line, electric fuel pump to engine-driven fuel pump - Check condition, signs of leakage.
17. Fuel line, engine-driven fuel pump to injector throttle body - Check condition, signs of leakage.
18. Fuel line, injector throttle body to spider - Check condition, signs of leakage.
19. Fuel lines, spider to injectors - Check condition, signs of leakage.
20. Fuel pressure line, spider to firewall fitting - Check condition, signs of leakage.
21. Fuel pressure line, firewall fitting to fuel pressure gauge - Check condition, signs of leakage.
22. Alternator bracket - Check mounting hardware, signs of cracks.
23. Alternator - Check mounting hardware; belt condition and tension.
24. CHT senders - Check installation; condition of wires and connections.
25. EGT senders - Check installation; condition of wires and connections.
26. Landing gear up-limit switch - Check installation and condition.
27. Landing gear down-limit switch - Check installation and condition.
28. Ignition harness - Check installation and condition.
29. Both magnetos - Check 'P' lead and shield connections.
30. Both magnetos - Check points for clearance.
31. Both magnetos - Check breaker felts for proper lubrication.
32. Both magnetos - Check distributor block for cracks, burned areas or corrosion and height of contact springs.
33. Gascolator - Remove and clean strainer.
34. Nose gear steering arm to engine mount - Tri-flow oil.
35. Nose gear steering arm to L.H. eyebolt - Tri-flow oil.
36. L.H. eyebolt to L.H. nose gear steering cable - Tri-flow oil.
37. Nose gear steering arm to R.H. eyebolt - Tri-flow oil.
38. R.H. eyebolt to R.H. nose gear steering cable - Tri-flow oil.
39. L.H. roller in nose gear steering arm - Tri-flow oil.
40. R.H. roller in nose gear steering arm - Tri-flow oil.
41. Cabin heat valve assembly - Check for installation of all grommets.
42. Cabin heat valve - Check for proper operation.
43. Throttle control cable to injector - Tri-flow oil.
44. Propeller control cable to propeller governor - Tri-flow oil.
45. Mixture control cable to injector - Tri-flow oil.
46. Tachometer cable - Remove and lubricate.
47. Exhaust pipes to all cylinders - Inspect for leaks, cracks; torque nuts.
48. L.H. exhaust pipe support assembly at firewall - Check for condition.
49. R.H. exhaust pipe support assembly at firewall - Check for condition.
50. Cabin heat Aeroduct tubing from right front baffle to heat muff - Check for leaks.
51. Cabin heat muff - Check condition.
52. Cabin heat Aeroduct tubing from heat muff to cabin heat valve - Check condition.
53. Alternator cooling Aeroduct tubing from right front baffle to alternator - Check condition.



54. Cowling - Check for cracks and other defects.
55. Crankcase oil and filter - Change as necessary.
56. Oil sump finger screen - Remove and clean.
57. Spark plugs - Clean, gap, and rotate.
58. Engine cylinders - Perform compression test.
59. Brake fluid reservoir - Check level.
60. Fuel injector - Remove and clean inlet filter.
61. Induction air system - Replace filter; check alternate air valve.
62. Fuel injectors (4) - Remove, clean, replace.
63. Engine timing - Check for proper setting.
64. Vacuum pump outflow tube - Check for excessive carbonization.
65. Vacuum pump Garlock seal - Check for leakage.
66. Inspect the intake filter and frame for cleanliness and integrity.
67. Inspect internal spring structure of engine air intake duct.
67. Engine run-up - Check idle RPM; idle mixture; fuel and oil pressure; cylinder and oil temperature; shut down and check for leaks.
68. Engine cowling - Reinstall.

### Airframe and Cockpit:

1. Access panels and hinge fairings - Reinstall.
2. Luggage compartment bulkhead and deck - Reinstall.
3. Cockpit floorboards - Reinstall.
4. Console covers - Reinstall.
5. Seat tracks - Tri-flow oil.
6. Seats - Reinstall.
7. GO FLY!

This inspection checklist was compiled from the following sources:

1. Falco Flight Test Manual - Sequoia Aircraft Corporation
2. Falco Builder's Letter, March 1993 - Stephan Wilkinson
3. FAR, Part 43, Appendix 'D'
4. Aircraft Owners Handbook - Timothy Fisher
5. Personal Aircraft Maintenance - Kas Thomas