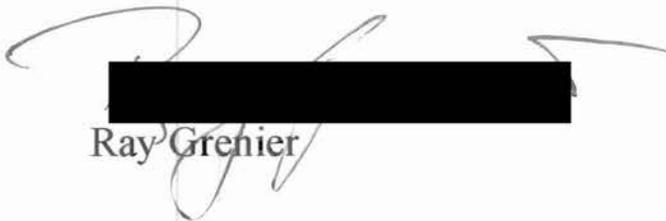


Subject: Maintenance Data

I checked the Aircraft Maintenance Log and found no notations or service actions on the landing gear other than the notes on the condition inspection I use every year. I included a copy of the last checklist as an example. During these inspections I remove the wheels and check for wear, tires and brakes, and repack the bearings. These checks have all been normal; I also check and lube the tail wheel. The only recommended check on the gear assembly is to check the torque on the attach bolts. These are checked to 240 in. pounds.

I have included two drawings of the gear assembly and highlighted the parts that need to be replaced.

The time in service on all these parts is approximately 80 hours, with approximately 100 hundred landings.




Ray Grenier

N220RG



ANNUAL CONDITION INSPECTION REPORT

HOURS: 65.9

MAKE: RV-8

REGISTRATION #: N220RG

SERIAL #: 0001

DATE: 2/22/11

DESCRIPTION :

COMMENTS:

A. PROPELLER GROUP

- 1. Inspect spinner and back plate... ✓
- 2. Inspect blades for nicks and cracks... ✓
- 3. Check for grease and oil leaks... ✓
- 4. Lubricate propeller per lubrication chart... ✓
- 5. Check spinner attachment screws... ✓
- 6. Check propeller mounting bolts... ✓
- 7. Inspect hub parts for cracks and corrosion... ✓

B. ENGINE GROUP

CAUTION: ground ~~mags~~ ^{IGNITION} before working on engine

- 1. Remove engine cowl... ✓
- 2. Clean and check cowling for cracks, distortion and loose or missing fasteners... ✓
- 3. Drain oil sump... ✓
- 4. Clean suction oil strainer at oil change... ✓
Remove and replace full flow oil filter element..... ✓
- 6. Check oil temp. sender for leaks and security... ✓
- 7. Check oil lines and fittings for leaks, chafing security, dents and cracks... ✓
- 8. Clean and check oil radiator cooling fins... ✓
- 9. Fill engine with oil per lubrication chart... ✓
- 10. Clean engine... ✓
- 11. Check condition of spark plugs adjust gap... ✓
- 12. Check ignition harness and insulators... ✓
- 17. Check ~~magneto~~ engine timing... ✓
- 18. Remove and replace air filter... ✓
- 19. Drain carburetor and clean inlet line fuel... ✓
- 20. Check condition of fuel servo ✓

21. Check intake seal for leaks and clamps for tightness... ✓
22. Clean screens in fuel pump???... ✓
23. Clean and check fuel filter... ✓
24. Inspect condition of fuel lines... ✓
25. Check fuel system for leaks.... ✓
- Check electric fuel pump for operation..... ✓
27. Check engine controls throttle, mixture, and prop.... ✓
28. Inspect exhaust stacks, connections, gaskets... ✓
29. Inspect heat exchange and baffles.... ✓
30. Check breather tube for obstructions and security... ✓
31. Check crankcase for cracks, leaks, security of bolts... ✓
32. Check engine mounts for cracks and loose mountings..... ✓
33. Check all engine baffles... ✓
34. Check firewall seals... ✓
36. Check condition and tension of alternator and drive belt... ✓
36. Check condition of starter... ✓
37. Check fluid in brake reservoir... ✓ *see notes*
38. Lubricate all controls... ✓
39. Reinstall engine cowl... ✓

C. COCKPIT GROUP

1. Inspect canopy for cracks or scratches ✓
2. Check upholstery for tears... ✓
3. Check seats, seat belts, shoulder straps... ✓
4. Check trim operation... ✓
- Check rudder pedals... ✓
- Check control column, systems and connection..... ✓
7. Check landing, nav, cabin, and instrument lights... ✓
8. Check instrument, lines and attachments... ✓
9. Check gyro operation, and electric turn and bank... *W/A*
10. Check or replace gyro air filter.... *W/A*
12. Check altimeter... ✓
13. Check operation of fuel selector valve... ✓
15. Check condition of heater controls... ✓
16. Check condition and operation air vents... ✓

D. FUSELAGE AND EMPENNAGE GROUP

1. Remove inspection plates and panels... ✓
2. Check battery box, battery and cables... ✓
3. Check electronic installations... ✓
4. Check bulkheads and stringers for damage... ✓
5. Check antenna mounts and wiring... ✓
6. Check fuel lines and valves... ✓
7. Check vertical fin and rudder surfaces... ✓
8. Check rudder horn and attachment... ✓
9. Check vertical fin attachments... ✓
10. Check rudder bolts for wear... ✓
11. Check horizontal stabilizer and elevators... ✓
12. Check horizontal stabilizer attachment... ✓
13. Check elevator horn... ✓
14. Check elevator bolts for wear... ✓
15. Check elevator bell cranks and controls... ✓
16. Lubricate all bearings as needed.... ✓
17. Reinstall inspection plates and panels... ✓

Notes: 1 Replaced Brake fluid
and bleed left Brake OK
2 Replaced EIT Exh. valves

E. WING GROUP

1. Remove inspection plates... ✓
2. Check surfaces and tip for damage and loose rivets and condition of walkways... ✓
3. Check aileron mounts and attachments... ✓
4. Check aileron bellcrank and control tubes... ✓
5. Check flaps and attachment for damages... ✓
6. Check all wing attachment bolts... ✓
7. Check fuel tanks and lines for leaks and... ✓
8. Check fuel tank vents... ✓
9. Reinstall inspection plates... ✓

E. LANDING GEAR GROUP

- 1. Check tail wheel arm, ~~springs~~, and hardware... ✓
- 2. Check main gear attachments... ✓
- 3. Check tires for cuts and wear... ✓
- 4. Remove wheel, clean, and repack bearings... ✓
- 5. Check wheels for cracks, corrosion and broken bolts... ✓
- 6. Check tire pressure... ✓
- 7. Check brake lining and disc... ✓
- 8. Check brake lines... ✓

Note Tires may have to be replaced w/ 1 condition OK for now. Rly. check Torque 240 with

F. OPERATIONAL INSPECTION

- 1. Check fuel pump and fuel tank selector... ✓
- 2. Check fuel pressure... ✓
- 3. Check oil pressure and temperature... ✓
- 4. Check alternator output... ✓
- 5. Check manifold pressure... ✓
- 6. Check alternate air... ✓
- 7. Check vacuum gauge... ✓
- 8. ~~Check gyros for noise and roughness...~~ ✓
- 9. Check Cabin heat operation... ✓
- 10. Check ignition switch operation... ✓
- 11. Check ignition RPM variation... ✓
- 12. Check throttle and mixture operation... ✓
- 13. Check propeller smoothness... ✓
- 14. Check electronic equipment operation... ✓

G. Known problem areas:

- Smoking rivets on forward bottom skin ✓
- b) Chafing brake lines on gear leg fairing and beneath wheel pant ✓
- c) Chaffing of wheel on wheel pant ✓
- d) Fretting corrosion at gear leg fairing intersection ✓
- e) Corrosion of exposed rod end bearings ✓
- f) Rudder contacting elevator roots in flight (dynamic clearance less than static clearance!) ✓

NOTES

CY 1	CY 2	CY 3	CY 4
79/80	79/80	79/80	79/80

changed OIL 6QT AEROSHELL 15/50

[Signature]

Owner, Sudder, Repairman

[Redacted]