**AIRWORTHINESS CHECKLIST**

<table>
<thead>
<tr>
<th>Completed By: __________________________</th>
<th>Date: __________________</th>
<th>N-Number: __________________</th>
</tr>
</thead>
</table>

**Out Hobbs: __________________________ | Date: __________________ | In Hobbs: __________________ |

**Off Hobbs: __________________________ | Date: __________________ | On Hobbs: __________________ |

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### Documents

- Airworthiness Certificate (91.203(a)(1))
- Registration Certificate (91.203(a)(2)) Expiration Date: ____________
- Radio Station License (47 CFR 87.18) - if flying outside US
- Operating Handbook (91.9(b))
- Weight & Balance (23.2620) (official - in POH/AFM)
- External Data Plate (45.11)
- Compass Deviation Card (not required in G1000 Archer w/ Aspen EBD)

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### Inspections

- Annual (91.409(a)) - 12 calendar months
  - Most recent: ____________ Next due: ____________
- VOR equipment check (91.171) - 30 days (if using VOR for IFR flight)
  - Most recent: ____________ Next due: ____________
- 100-hour (91.409(b)) - 100 flight hours less previous overflight
  - Total AC Time at next due (from MX summary): ____________
  - (-) Offset (taken from above section): ____________
  - (=) Off/On Hobbs: ____________
  - (=) Current Off/On Hobbs: ____________
  - (=) Hours left to 100-hour: ____________
- Altimeter / Static / Encoder (91.411) - 24 calendar months (for IFR flight)
  - Most Recent: ____________ Next due: ____________
- Transponder (91.413) - 24 calendar months (if using transponder)
  - Most Recent: ____________ Next due: ____________
- ELT (91.207)
  - Battery replacement - 1 hr use or 50% life
    - Next due: ____________
  - Inspection - 12 calendar months
    - Most Recent: ____________ Next due: ____________

### Airworthiness Directives (Part 39)

- List available at https://www.faa.gov/regulations_policies/airworthiness_directives/
- Applicable ADs and compliance listed in MX Summary sheet and FAA Airworthiness Directives Compliance Record sheets
- Recent compliance actions in maintenance logs
- To verify recurring AD currency (if required):
  - Total AC Time at next due (from MX summary): ____________
  - (-) Offset: ____________
  - (=) Off/On Hobbs at next due: ____________

### Form 337s (Part 43 Appendix B)

- Required for major repairs and alterations (in Appendix A)
- Review MX Blue Book for any 337s present

### Inoperative Equipment (91.213(d))

List inoperative equipment:

- ______________________________________
- ______________________________________
- ______________________________________

If any inop equipment present, verify:

- Not required by
  - 91.205(b) (day VFR), (c) (night VFR) and/or (d) (IFR)
  - Equipment list in POH/AFM
  - Airworthiness directive
  - Deactivated and placarded “Inoperative”, OR...
    - Removed, control placarded, and maintenance recorded
    - PIC determines that inop equipment is not a hazard to the aircraft
CESSNA 172
Weight & Balance

Formulas
- Weight × Arm = Moment
- Total Moment ÷ Total Weight = Center of Gravity (CG)
- Max Ramp Weight - Zero Fuel Weight = Usable Fuel Weight
- Fuel Weight + 6 = Fuel Gallons
- 100 LL (Blue) Fuel Weighs 6 lbs./gal.
- Oil Weighs 7.5 lbs./gal.

Important information specific to your N-Number, including Basic Empty Weight and Moment, is available on the ATP Student Extranet and in the ATP Documents folder in ForeFlight.

Sign in to your Student Extranet account. Go to Library > Aircraft Information Manuals > Aircraft Quick Reference, and enter the N-Number of the aircraft you are flying.

Performance
Short Field Takeoff Distance
Ground Roll 50ft Obst.

Short Field Landing Distance
Ground Roll 50ft Obst.

Archer

CG Envelopes depicted for 172R and S-Models are for training purposes only. Other fleet models are not depicted. Always use the approved Operators Manual or POH/AFM specific to the airplane you are flying. These examples are to be used as a reference only. ATP assumes no responsibility or liability for any errors or omissions that may appear on this guide and it is not intended to replace the approved POH/AFM or FAA approved publications and procedures.

Revised 2019-06-21
## PIPER SEMINOLE
### Weight & Balance

<table>
<thead>
<tr>
<th>Weight</th>
<th>×</th>
<th>Arm</th>
<th>=</th>
<th>Moment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Empty Weight</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front Pilots</td>
<td>+</td>
<td>80.50</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>Rear Passengers</td>
<td>+</td>
<td>118.10</td>
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<tr>
<td>Baggage 200lbs. max</td>
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<td>142.80</td>
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<tr>
<td><strong>Zero Fuel Weight</strong></td>
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<td>95.00</td>
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<td><strong>Ramp Weight</strong></td>
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<tr>
<td>Taxi Fuel</td>
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<td>95.00</td>
<td>−</td>
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<tr>
<td><strong>Takeoff Weight</strong></td>
<td>=</td>
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<td>CG</td>
<td></td>
</tr>
<tr>
<td>Fuel Burn</td>
<td>−</td>
<td></td>
<td>−</td>
<td></td>
</tr>
<tr>
<td><strong>Landing Weight</strong></td>
<td>=</td>
<td></td>
<td>CG</td>
<td></td>
</tr>
</tbody>
</table>

### Specific ATP Aircraft Weight & Balance Info

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### Performance

**Accelerate Stop Dist:**

- Takeoff Distance Over 50 Foot Barrier:
- Climb Performance Both Engines Operating Gear Up
- Climb Performance One Engine Operating Gear Up Dep APT:
- Des APT:
- Single-Engine Service Ceiling:
- Landing Distance Over 50 Foot Barrier Dep APT:
- Des APT:
- Fuel and Power Chart 55% Power - 2300 RPM

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