AeroDynamic Aviation  Aircraft Checkout  Make/Model __________

Pilot Name _________________________________________________________________
Certificate Type & Number __________________________________________________
Medical Class & Issue Date __________________________________________________
Last Flight Review Date (if applicable) _________________________________________

This Checkout form MUST be completed prior to acting as PIC in each Make and Model of aircraft. Please use the aircraft’s AFM/POH to complete this questionnaire to the best of your ability. Review any incomplete areas as needed with your instructor.

1. GENERAL INFORMATION

Aircraft Make & Model _________________________________________________________

Which documents must be on board the aircraft? __________________________________

What is the fuel capacity?  _______________ total usable, and __________ total unusable
How many fuel drains are there? ________________________________________________
Where are they located? _________________________________________________________

What is the recommended fuel grade and color? _________________________________
Where should the fuel selector be set for takeoff and landing? ______________________
Is there a fuel pump on this aircraft? __________________________________________
If so, when should the fuel pump be used? _______________________________________  
What is the procedure for priming for a cold start? _________________________________

Hot start procedure? __________________________________________________________

Does the aircraft have carburetor heat or alternate air? ____________________________
When should it be used? _________________________________________________________

Does this aircraft use flaps for:
Normal takeoff? __________ Degrees __________
Short-field takeoff? ________ Degrees __________
Soft-field takeoff? __________ Degrees __________

2. PERFORMANCE

What are the following airspeeds (IAS) for this aircraft?

$V_{SO}$ ______________  $V_A$ ______________

$V_S$ ______________  $V_{NO}$ ______________

$V_R$ ______________  $V_{NE}$ ______________

$V_X$ ______________  Cruise climb ______________

$V_Y$ ______________  Best glide ______________

$V_{FE10^\circ}$ _______ Full flaps _______  Approach flaps up ______________

$V_{LOFL}$ ______________  Max demonstrated xwind _______

Normal approach speed and configuration _______________________________________
Short-field approach speed and configuration ____________________________________
Soft-field approach speed and configuration _____________________________________

What approximate power setting should be used downwind in the traffic pattern?
RPM __________  MP _______ (if applicable)

Pilot’s Initials __ __ __
AeroDynamic Aviation

Aircraft Checkout

Make/Model ____________

Condition: Cruise @ 7000 Ft. Pressure Altitude, 55% Power, 0°C, max weight.
What are the following values:
MP _________ (if applicable) RPM _________ GPH _________ TAS _________
Range (nm) _________ Endurance _________

Condition: Cruise @ 3000 Ft. Pressure Altitude, 75% Power, 20°C, max weight.
What are the following values:
MP _________ (if applicable) RPM _________ GPH _________ TAS _________
Range (nm) _________ Endurance _________

Condition: 6000 ft pressure alt, 10°C, max takeoff weight, 10 kts headwind.
Takeoff ground roll __________________ Over 50’ obstacle __________________
Landing ground roll __________________ Over 50’ obstacle __________________

Condition: KRHV, RWY 31R, OAT 20°C, altimeter 30.00", wind calm, max weight
Takeoff ground roll __________________ Over 50’ obstacle __________________
Landing ground roll __________________ Over 50’ obstacle __________________

You lose an engine immediately after takeoff, below 400’ AGL. What are the procedures?
________________________________________________

________________________________________________

________________________________________________

You lose an engine at 3000’ AGL. What are the procedures?

________________________________________________

________________________________________________

________________________________________________

3. WEIGHT AND BALANCE
For this aircraft what are the following:

Empty weight ____________ Useful load ____________
Max ramp weight ____________ Upper C.G. Limits:
Max takeoff weight ____________ FWD ____________ AFT ____________
Max landing weight ____________ Baggage compartment limit ____________

Condition: Pilot and passenger @ 170 lbs. each; Rear seats (if applicable)- two passengers @120 lbs each; Baggage-50 lbs; Full fuel @ 6 lbs. per gallon

For the condition above find the:
Ramp weight ____________ Takeoff weight ____________ C.G. Position ____________
Is the aircraft within C.G. and weight limits? __________________

4. ENGINE
Make, model and type __________________________________________________________
What is bhp _________ @ maximum RPM?
What is the maximum allowable RPM? _________
Should it be used continuously? __________________

Pilot’s Initials __ __ __
Fuel injected or carbureted? ____________________________________________
Normally aspirated or turbo charged? ____________________________________

What is the order & position for throttle, prop, mixture, carb heat when increasing power?
_____________________________________________________________________

What is the order & position for throttle, prop, mixture, carb heat when reducing power?
_____________________________________________________________________

What is the procedure to lean for best power WITHOUT an EGT? ____________________________
_____________________________________________________________________

What is the procedure to lean for best power WITH an EGT? ____________________________
_____________________________________________________________________

What are the min and max operating oil temperature for this aircraft? ____________
What is the "normal" oil temperature range for this aircraft? ____________
If your oil temperature increases beyond normal, what else should you be checking and what can you do to reduce temperature? ____________
_____________________________________________________________________

5. SYSTEMS
What are the maximum and minimum oil quantities? _______________________
What is the recommended oil type? _______________________

Does this aircraft have alternators or generators? _______________________
How many? ____________ What are they rated at? _______________________
How can you verify that the alternator/generator is working prior to takeoff? _______________________

How do we detect an alternator/generator failure and what do we do about it? _______________________
_____________________________________________________________________

Are the flaps manual or electric? _______________________

6. COMPLEX AIRCRAFT
What are the following power settings at sea level on a standard day?
Takeoff MP ____________ RPM ____________
Climb MP ____________ RPM ____________

If we lose oil pressure, will the propeller increase or decrease pitch and what will this do to RPM? _______________________
_____________________________________________________________________

Pilot’s Initials __ __ __
During descent from cruise altitude, the engine should be slowly cooled by reducing MP _____” per _________ minute(s) with cowl flaps open or closed?
When do we operate cowl flaps open? ________________________________________________
When do we operate cowl flaps closed? ______________________________________________

How does the landing gear system operate? ____________________________________________
What are some of the safety features of the landing gear? ________________________________
______________________________________________  ______________________________________
Will the landing gear extend with an electrical failure? _________________________________
How do we accomplish a manual gear extension? _______________________________________  
________________________________________________________________________________

I have read, understand, and agree to comply with the POH or AFM and will operate the aircraft within the limitations established by the manufacturer and AeroDynamic Aviation.

Pilot's signature  Date
Print pilot's name

<table>
<thead>
<tr>
<th>Required Checkout Items</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Documents on file</td>
<td>Soft-field takeoff &amp; landing</td>
</tr>
<tr>
<td>Renter's insurance</td>
<td>Steep turns</td>
</tr>
<tr>
<td>Dispatch procedures</td>
<td>Slow flight</td>
</tr>
<tr>
<td>Preflight planning</td>
<td>Power-on &amp; off stalls</td>
</tr>
<tr>
<td>Preflight inspection</td>
<td>Stall recovery</td>
</tr>
<tr>
<td>Airworthiness</td>
<td>Spin awareness</td>
</tr>
<tr>
<td>Checklist usage</td>
<td>Emergencies (fire, failure)</td>
</tr>
<tr>
<td>Fuelling &amp; servicing</td>
<td>Electrical fire/fault/failure</td>
</tr>
<tr>
<td>Start, taxi, runup</td>
<td>Gear malfunction/failure</td>
</tr>
<tr>
<td>Climb, cruise climb</td>
<td>Tailwheel only:</td>
</tr>
<tr>
<td>Normal/crosswind takeoff</td>
<td>Wheel landings</td>
</tr>
<tr>
<td>Normal/crosswind landing</td>
<td>Toe brakes</td>
</tr>
<tr>
<td>Short-field takeoff &amp; landing</td>
<td>Heel brakes</td>
</tr>
</tbody>
</table>

I have personally reviewed and corrected this form. I have reviewed any areas found deficient and completed ground training with the above-named pilot. I have completed the flight checkout and find the above-named pilot's knowledge and training adequate to safely operate this aircraft.

Instructor's signature  Date
Print instructor's name

Pilot's Initials __ __ __