

PA-32R Lance Checkout Form (N40033)

Pilot Information

Name _____ Date _____

Address _____

Phone Number _____

Certificates, Ratings, & Endorsements:

- | | | |
|-------------------------------------|-------------------------------|---|
| ☐ Private | ☐ ASEL | ☐ High Performance |
| ☐ Commercial | ☐ AMEL | ☐ Complex |
| ☐ Instrument | | |

Medical Class: ☐ 1st ☐ 2nd ☐ 3rd Expiration Date: _____

Last Flight Review: _____ Expiration Date: _____

ASEL Time (Last 90 Days): _____ Complex/H.P.: _____ / _____

IFR Time (sim & actual) last 6 months: _____ Approaches: _____

Total Flight Time: _____

Aircraft Operating Speeds

Rotate (V _R)	Stall Speed – Landing (V _{SO})
Best Rate of Climb (V _Y)	Stall Speed – Takeoff (V _S)
Best Angle of Climb (V _X)	Stall Speed – 60°, Full Flaps
Normal Climb-Out	Stall Speed – 60°, No Flaps
Normal Cruise	Maneuvering Speed (V _A)
Maximum Flaps Extended (V _{FE})	Never-Exceed Speed (V _{NE})
Maximum Landing Gear Extend (V _{LE})	Maximum Structural Cruising (V _{NO})
Maximum Landing Gear Retraction	Best Glide (V _G)

What is the maximum demonstrated crosswind component of this aircraft? _____

Is this an operating limitation of the aircraft? Yes / No

Traffic Pattern Speeds and Configurations:

Downwind _____ Base _____

Final _____ Threshold/Touchdown _____

Aircraft Information

Type, Make, & Model of Engine _____ Horsepower _____

Fuel System: Carbureted or Fuel Injected _____

Describe Carb Heat or Alternate Air _____

Total Gallons of Fuel _____ Usable Fuel _____ Type & Color _____

Number, Location, and Capacity of Fuel Tanks _____

Number, Location of Fuel Sumps _____

Oil Type & Viscosity _____ Minimum Quarts _____ Maximum Quarts _____

Electrical System Voltage _____ Alternator Amp Output _____

Location of Circuit Breakers for Landing Gear Pump, Landing Light, and Alternator _____

Is the Landing Gear Pitot Mast heated or unheated? _____

How does this change operations in icing conditions? _____

What limitations could be exceeded by unwanted gear extension? _____

What is the purpose of the Gear Override? _____

Explain how the Gear Override is used _____

What are advantages of the Gear Override? _____

What are some disadvantages of the Gear Override? _____

Describe the Emergency Gear Extension Procedure _____

Does this aircraft have deicing/anti-icing capabilities? If so, what are they _____

Briefly describe the propeller operation _____

Describe the Door Seal operation _____

What are risks of attempting to open the door(s) with the seal inflated? _____

Aircraft Operation

What is the acceptable oil quantity for NORMAL operation? _____

What tire pressure should the main tires be at? _____ Nose tire? _____

What is the expected or normal oleo struts extension for the mains? _____ Nose? _____

(The following questions are to be used for discussion during aircraft checkout about H.P. engine shock cooling and are not published in the POH.)

What power settings should be used during a descent? _____

What temperature(s) should be monitored during descent? _____

What is the maximum difference/change in those temperature(s)? _____

What condition is prevented by the close monitoring of the temperatures? _____

Note: Ensure oil cap is secured in place, handle should be flat with the cap and should not lift up to ensure secure fit.

Note: Ensure the tires are free of damage such as flat spots, excessive uneven wear, etc.

Note: Ensure no damage is on the aircraft such as its frame, wings, prop, stabilator, or vertical stabilizer.

Aircraft Weight & Balance and Limitations

Maximum Gross Weight _____ Basic Empty Weight _____

Useful Load _____ Useful Load with Full Fuel _____

Maximum baggage compartments: FWD _____ AFT _____

Calculate a weight and balance if each seat is occupied by a 180-pound individual with full fuel and no baggage.

Is the aircraft within weight limits? _____ If not, how much is the aircraft overweight? _____

Calculate a weight and balance if the Pilot and Front Passenger, Center Passengers, and a single Rear Passenger seat is occupied by a 180-pound individual and you have 20 pounds of baggage in the forward cargo compartment, and 40 pounds in the aft compartment with full fuel.

What is the gross weight? _____ C.G.? _____ Total Moment? _____

Is the flight within the C.G. Range and Weight envelope? _____

With the previous W&B calculation, 70°F, 5 knot headwind, and 1,000' pressure altitude:

What is the flaps up takeoff ground roll? _____

What is the landing ground roll? _____

Would high humidity change those calculations? Why? _____

What is the endurance for a flight at 8,000', standard temperature, and 65% power with full fuel and a 45-minute reserve? _____ What is the approx. fuel flow? _____

What RPM and Manifold pressure setting yields 75% power at 7,000'? _____ RPM _____ "MP

Aircraft Best Practices

- When closing the AFT door, gently push the top portion of the door down to correctly align the upper latch to prevent damage to door frame and latch. Gently push the lower latch in when locking the door to assure a secure fit.
- When closing the AFT cargo door, the latch must be lifted up to prevent locking pin from striking the frame of the door/aircraft.

Ensure a proper and detailed walk around is conducted to determine the condition of the aircraft. Any damage found during walk around must be documented and the maintenance officer notified. Failure to do so may make you responsible for damage.

Aircraft Checkout Complete

_____ has satisfactorily completed the Lance (PA-32R) checkout & maintenance briefing on _____.

CFI Name _____

Certificate # _____

CFI Signature _____

Expiration _____