



## Piper Arrow PA 28 RT-201T (Turbo) - Checkout Sheet

Name \_\_\_\_\_

Date \_\_\_\_\_

CFI \_\_\_\_\_

### 1. List the following speeds:

V<sub>X</sub> \_\_\_\_\_ (gear up, flaps up) Best Angle of Climb Speed  
\_\_\_\_\_ (gear down, flaps up)

V<sub>Y</sub> \_\_\_\_\_ (gear up, flaps up) Best Rate of Climb Speed  
\_\_\_\_\_ (gear down, flaps up)

V<sub>S0</sub> \_\_\_\_\_ Stall speed (dirty)

V<sub>S1</sub> \_\_\_\_\_ Stall speed (clean)

V<sub>A</sub> \_\_\_\_\_ (at 2900 lbs) Maneuvering Speed – no full abrupt control movements above this speed  
\_\_\_\_\_ (at 1893 lbs)

V<sub>NE</sub> \_\_\_\_\_ Never Exceed Speed – do not exceed this speed in any configuration

V<sub>NO</sub> \_\_\_\_\_ Maximum Structural Cruising Speed – do not exceed this speed except in smooth air,  
and only with caution

V<sub>FE</sub> \_\_\_\_\_ Maximum Flaps Extended Speed – do not exceed this speed with flaps extended

V<sub>LE</sub> \_\_\_\_\_ Maximum Landing Gear Extended Speed – do not exceed this speed with the landing  
gear extended

What is the Maximum Landing Gear Extension Speed? This speed should not be exceeded when extending the  
landing gear. \_\_\_\_\_

What is the Maximum Landing Gear Retraction Speed? This speed should not be exceeded when retracting  
the landing gear. \_\_\_\_\_

What is the Turbulent Air Operating Speed? \_\_\_\_\_

What is the Maximum Demonstrated Crosswind Velocity? \_\_\_\_\_

### 2. Maximum Weights

Maximum Takeoff Weight \_\_\_\_\_

Maximum Landing Weight \_\_\_\_\_

Maximum Ramp Weight \_\_\_\_\_

3. **Weight and Balance Problem**

Determine if the aircraft is within weight and CG limits. Calculate this by using the aircraft POH.

|                         | Weight | Arm  | Moment  |
|-------------------------|--------|------|---------|
| Basic Empty Weight      | 1798.7 | 87.8 | 157,918 |
| Pilot & Front Passenger | 380.0  |      | 30,590  |
| Rear Passenger          | 200.0  |      | 23,620  |
| Fuel (50 gal @ 6lb/gal) | 300.0  |      | 28,500  |
| Baggage                 | 100.0  |      | 14,280  |
| <b>Totals</b>           |        |      |         |

What is the aircraft gross weight? \_\_\_\_\_

What is the aircraft CG? \_\_\_\_\_

Is the aircraft within limitations? \_\_\_\_\_

4. Determine the takeoff distance over a 50-ft obstacle and the liftoff speed with the given information:

PA 6,095 ft MSL, OAT = 23°C, Gross weight = 2,700 b, Headwind = 5 kts.

(Use page 5-13, Figure 5-5 in aircraft POH)

5. Determine the fuel burn and distance to climb with the following given information:

Maximum gross weight, gear retracted, climb speed @87 knots, no wind, takeoff PA = 3,795 ft MSL and OAT = 25°C, Cruise PA = 8,450 ft MSL and OAT = 6°C.

(Use page 5-19, Figure 5-17 in aircraft POH)

6. Determine the landing distance and approach airspeed over a 50-ft obstacle with the following given information:

Destination PA = 525 ft MSL and OAT = 18°C, Landing weight = 2,580 lbs, no wind.

(Use page 5-30, Figure 5-35 in aircraft POH)

7. **Fuel and Oil**

What is the fuel capacity for this aircraft? Total: \_\_\_\_\_ gal. Total Useable: \_\_\_\_\_ gal.

What is the minimum octane fuel this aircraft can use? \_\_\_\_\_

What is the engine oil capacity? \_\_\_\_\_

**8. Performance**

What is the Engine Model Number? \_\_\_\_\_

Maximum rated Horsepower? \_\_\_\_\_

Maximum Rotation Speed (RPM)? \_\_\_\_\_

What is the maximum takeoff weight? \_\_\_\_\_

What is the normal main oleo strut extension? \_\_\_\_\_

What is the maximum magneto drop? \_\_\_\_\_ The maximum magneto difference? \_\_\_\_\_

You should avoid continuous engine operation between \_\_\_\_\_ and \_\_\_\_\_ RPM and below \_\_\_\_\_.

Why should prolonged idling at low RPM be avoided? \_\_\_\_\_

What is the Service Ceiling for this aircraft? \_\_\_\_\_

**9. Emergency Procedures & Failures**

1. List the emergency procedure for Engine Fire During Start:

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2. List the emergency procedure for Engine Fire In Flight:

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3. List the emergency procedure for Engine Fire In Flight (During Cruise):

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4. List the emergency procedure for Emergency Approach to Landing:

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5. What are the prop over-speed procedures?

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6. What are the (5) steps to spin recovery?

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7. In the power off emergency landing pattern, downwind altitude is how many feet? \_\_\_\_\_

8. At best glide speed, a wind-milling engine, prop full decrease, the aircraft will travel \_\_\_\_\_ miles for each 1,000 feet of altitude loss.

9. How is an alternator failure detected?

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10. What are the corrective steps for an alternator failure?

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**10. General Questions**

1. Which documents must be carried aboard the aircraft?

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2. What documents must you carry with you?

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3. What are the (3) most probable causes for engine roughness?

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4. How is the engine primed?

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5. What is the maximum starter cranking and resting periods?

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6. The gear unsafe horn will activate if the throttle is reduced below \_\_\_\_\_.

7. What is the gear up rate of climb at 2,750 lbs, 15°C, at sea level? \_\_\_\_\_ fpm.

8. What is the flaps up takeoff distance at 2,750 lbs, 20°C, at sea level, lift off is at 71 kts, with wind?  
\_\_\_\_\_ feet

9. At 75% power, GPH is approximately \_\_\_\_\_.

10. If the OAT is 10°C, PA is 3,000 ft, TAS is \_\_\_\_\_.

11. Who is responsible for determining that the aircraft is airworthy before flight?

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Completed Date \_\_\_\_\_

CFI \_\_\_\_\_

Chief Flight Instructor \_\_\_\_\_

**CFI Remarks**

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