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Reality Expansion Pack for X-Plane

Piper PA-18 Super Cub  
Checklists & References

**AIRCRAFT PREPARATION**

- 1. Pre flight check acc. AFM, fuel drain ..... Completed
- 2. Aircraft equipment, A/C Log ..... On board
- 3. Flight Time ..... Noted, checked.
- 4. Flight controls ..... Free and correct
- 5. Electric switches ..... Off

**ENGINE START - Part 1**

- 1. Cabin ..... Secured
- 2. Parking Brake ..... As required
- 3. Battery/Alternator Master Switch ..... On
- 4. Fuel Quantity/Endurance ..... Check
- 5. Fuel Selector ..... On
- 6. Beacon Light ..... On
- 7. Carb. Heat ..... Cold
- 8. Mixture ..... Full rich
- 9. Throttle ..... Open 1/4 inch
- 10. Primer ..... Use 1 to 3 times if cold weather cond.
- 11. Propeller Area ..... clear
- 12. Magnetos ..... Both
- 13. Starter ..... Engage
- 14. Throttle ..... 1000 RPM

**ENGINE START - Part 2**

- 1. Oil Pressure ..... Rises within 30 seconds
- 2. GPS/Radios ..... On
- 3. Transponder ..... Set
- 4. ATIS / Departure information ..... Received
- 5. Avionics ..... Set, flight plan entered
- 6. Flight Instruments ..... Checked and set
- 7. Takeoff and Departure Briefing ..... Perform

**TAXI CHECK**

- 1. Brakes ..... checked
- 2. Compass ..... Free
- 3. Slip Indicator ..... Turning and skidding

**ENGINE RUN-UP CHECKLIST**

- 1. Parking brake ..... As Required
- 2. Mixture ..... Full Rich
- 3. Engine Instruments ..... In Limits
- 4. Area Behind ..... Clear
- 5. Throttle ..... 1800RPM
- 6. Magnetos \_ (left and right) max drop 175rpm/max diff 50rpm
- 7. Engine Instruments ..... In Limits
- 8. Mixture Control ..... EGT Rise with lean
- 9. Mixture ..... As Required
- 10. Alternator ..... Charging
- 11. Throttle ..... Check Idle (500-700rpm)
- 12. Throttle ..... 1000 RPM

**BEFORE TAKEOFF CHECKLIST**

- 1. Flight Controls ..... Free and correct
- 2. Fuel Quantity/Endurance LH \_\_\_ RH \_\_\_ Endurance \_\_\_ hrs
- 3. Mixture Control ..... Set (Leaned if above 3000ft dens Alt
- 4. Magnetos ..... Both
- 5. Flaps ..... As Required
- 6. Trim ..... Set for Take Off Position
- 7. Engine Instrument ..... Within Limits
- 8. Flight Instruments ..... Checked
- 9. Avionics ..... Set
- 10. Doors and Windows ..... Secure
- 11. Seats ..... Locked
- 12. Seatbelts / Cabin ..... Secure

### LINE UP CHECKLIST

- 1. Approach and Runway ..... Clear
- 2. Time ..... Noted
- 3. Transponder ..... Mode C
- 4. Compass, DG ..... Identified and Aligned with Runway
- 5. Lights ..... As Required
- 6. Wind ..... Checked
- 7. Mixture ..... Full Rich
- 8. Fuel ..... Sufficient

**CLIMB CHECKLIST**

- 1. Temperatures and Pressures ..... Within Limits
- 2. Flaps ..... Up
- 3. Lights ..... As required

**CRUISE CHECKLIST**

- 1. Altimeter ..... Set
- 2. Engine Instruments ..... Within Limits
- 3. Cruise power ..... SET
- 4. Mixture ..... Lean to 50 below max EGT
- 5. Fuel Quantity/Endurance ..... CHECK
- 6. Compass and DG ..... Aligned
- 7. Lights ..... As required
- 8. Transponder ..... Mode C
- 9. Cruise checklists ..... RE COMPLETE EVERY 15min

### DESCENT CHECKLIST

1. ATIS/Weather information ..... Recived
2. Approach and Landing Brief ..... Completed
3. Fuel Quantity ..... Sufficient
4. Avionics ..... Set
5. Altimeter ..... Set
6. Mixture ..... enrich to smooth running
7. Seat Belts and cabin ..... fastened, door/window secure

### APPROACH CHECKLIST

- 1. Altimeter ..... Set
- 2. Seat Belts and cabin ..... fastened, door/window secure
- 3. Landing Light ..... On
- 4. Fuel Quantity/Endurance ..... Check
- 5. Mixture ..... Full Rich/As Required
- 6. Flaps ..... As Required

**BEFORE LANDING CHECKLIST**

- 1. Flaps ..... As Required
- 2. Mixture ..... Full Rich/As Required

**AFTER LANDING CHECKLIST**

- 1. Transponder ..... Standby
- 2. Mixture ..... Lean for smooth running
- 3. Lights ..... As required
- 4. Flaps ..... Up
- 5. Time ..... Noted

**SHUT DOWN CHECKLIST**

- 1. Parking brake ..... as required
- 2. Throttle ..... 1000 RPM
- 3. Radios/Avionics ..... Off
- 4. Mixture ..... Cut off
- 5. Fuel ..... Off
- 6. Master ..... Off

## ENGINE POWER LOSS RUNNING IN FLIGHT

1. Fuel Selector ..... On
2. Fuel Quantity ..... Sufficient
3. Mixture ..... Full Rich
4. Engine Instruments ..... Check
5. Magnetos ..... Both
6. Alternate air (if installed) ..... Pull on

## POWER NOT RESTORED

1. Magnetos ..... Check left/right
2. Throttle ..... Check travel and different positions
3. Mixture ..... Check travel and different positions

If power is not restored, proceed with power off landing checklist

## ENGINE ROUGH RUNNING CHECKLIST

1. Mixture ..... Adjust for smooth running
2. Engine Gauges ..... Check/Monitor
3. Magneto ..... Check left/right
4. Fuel Quantity ..... Check

Engine continues rough running, prepare to divert and land at nearest airport or suitable landing

**POWER OFF LANDING CHECKLIST**

- 1. Trim aircraft for best glide ..... 75mph (65 knots)
- 2. Flaps ..... Up
- 3. Suitable landing ..... Selected
- 4. Radio Call ..... Mayday

**COMMITTED TO LANDING**

- 1. Magnetos ..... Off
- 2. Master Switch ..... Off
- 3. Fuel selector ..... Off
- 4. Mixture ..... Idle Cutoff
- 5. Seatbelt/harness ..... Secure
- 6. Door/Window ..... Unlatched/Open

### ELECTRICAL FIRE

1. Master Switch ..... Off

Land as soon as possible

### ENGINE FIRE

1. Fuel selector ..... Off
2. Mixture ..... Idle cutoff

Prepare for forced landing

### ENGINE FIRE DURING START

1. Engine ..... Continue cranking

If fire continues longer than a few seconds, shutdown and evacuate aircraft

If engine fire occurs and engine is not running

2. Mixture ..... Off
3. Throttle ..... Open
4. Engine ..... Continue cranking

Piper PA-18 Super Cub	References
Take Off ground roll .....	200 ft**
Take Off Run (50 ft) .....	500 ft**
Landing Roll .....	350 feet
Best Rate of Climb .....	75 mph (65knots)
Rate of Climb .....	960ft/min
Best Angle of Climb .....	45 mph (40 knots)
Service Ceiling .....	19,000 feet
Absolute Ceiling .....	21,300 feet
Top Speed .....	130 mph (113 knots)
Fuel Consumption 75% power .....	8.8 gph
Stall Speed (power off) .....	30 mph (26 knots) **

\*\* Flaps extended