

CHECKLIST P32R SE-GRZ

PREFLIGHT CHECK	
1.	Control Wheel RELEASE BELTS
2.	Parking Brake SET
3.	Ignition OFF
4.	Landing Gear Lever DOWN
5.	Master Switch ON
6.	Landing Gear 3 GREEN LIGHTS
7.	Fuel Quantity Gauges CHECK
8.	Navigation Lights CHECK
9.	Landing Lights CHECK
10.	Stall Warning CHECK
11.	Master Switch OFF
12.	Exterior CHECK FOR DAMAGE
13.	Control Surfaces CHECK FOR INTERFERENCE FREE OF ICE SNOW, FROST
14.	Hinges CHECK FOR INTERFERENCE
15.	Wings FREE OFF ICE, SNOW, FROST
16.	Fuel Tanks CHECK SUPPLY VISUALLY - SECURE CAPS
17.	Fuel Tank Sumps DRAIN AND CHECK FOR WATER SEDIMENT AND PROPER FUEL
18.	Fuel Vent OPEN
19.	Main Gear Struts PROPER INFLATION (4,0 IN)
20.	Tires CHECK
21.	Brake Blocks CHECK
22.	Pitot Heat REMOVE COVER HOLES CLEAR
23.	Windshield CLEAN
24.	Propeller and spinner CHECK
25.	Fuel and Oil CHECK FOR LEAKS
26.	Oil CHECK LEVEL (3-12 QUARTS REC 9 QUARTS)
27.	Dipstick PROPERLY SEATED
28.	Cowling SECURE
29.	Inspection Covers SECURE
30.	Nose Wheel Tire CHECK
31.	Nose Gear Strut PROPER INFLATION (2,6 IN)
32.	Air Inlets CLEAR
33.	Alternator Belt CHECK TENSION
34.	Tow Bar and Control Locks STOW
35.	Baggage STOWED PROPERLY SECURE
36.	Baggage Door CLOSE AND SECURE
37.	Fuel Strainer DRAIN AND CHECK FOR WATER SEDIMENT AND PROPER FUEL
38.	Primary Flight Controls PROPER OPERATION
39.	Cabin Door CLOSE AND SECURE
40.	Required Documents ON BOARD
41.	Seat Belts and Harness FASTENED CHECK INERTIA REEL

BEFORE STARTING ENGINE

1. Parking Brakes SET
2. Alternate Static Air CLOSED
3. Prop Control FULL FORWARD
4. Fuel Selector DESIRED TANK
5. Alternate Air CLOSED
6. Radios OFF
7. Landing Gear Lever DOWN
8. Master Switch ON
9. Landing Gear 3 GREEN LIGHTS
10. Circuit Breakers CHECK IN
11. Anti Coll Light (Rotating Beacon) ON

STARTING ENGINE WHEN COLD

1. Throttle OPEN 1/2 INCH
2. Electric Fuel Pump ON
3. Mixture PRIME - THEN IDLE CUT OFF
4. Starter ENGAGE
5. Mixture SET
6. Throttle 1000 rpm
7. Oil Pressure CHECK
8. Alternator CHECK AMMETER

STARTING ENGINE WHEN HOT

1. Throttle OPEN 1/2 INCH
2. Electric Fuel Pump ON
3. Mixture IDLE CUT OFF
4. Starter ENGAGE
5. Mixture ADVANCE AND SET
6. Throttle 1000 rpm
7. Oil Pressure CHECK
8. Alternator CHECK AMMETER

STARTING ENGINE WHEN FLOODED

1. Throttle OPEN FULL
2. Electric Fuel Pump OFF
3. Mixture IDLE CUT OFF
4. Starter ENGAGE
5. Mixture ADVANCE AND SET
6. Throttle RETARD TO 1000 rpm
7. Oil Pressure CHECK
8. Alternator CHECK AMMETER

STARTING WITH EXTERNAL POWER

1. Master Switch OFF
 2. Terminal CONNECT
 3. Plug INSET IN FUSELAGE
 4. Master Switch ON
- Proceed with normal start**
5. Master Switch OFF
 6. Plug DISCONNECT FROM FUSELAGE
 7. Master Switch ON
 8. Oil Pressure CHECK
 9. Throttle 1000 rpm
 10. Alternator CHECK AMMETER

BEFORE TAXI

1. Fuel quantity CHECK
2. Radios / Nav ON
3. Nav Lights AS REQ
4. ATIS and CLEARANCE COPIED
5. Altitude meter SET
6. Nav Instrument SET

TAXI

1. Taxi Lights AS REQ
2. Fuel Selector SWITCH TANK
3. Brakes / Steering CHECK
4. Gyros CHECK

GROUND CHECK

1. Parking Brake SET
2. Mixture FULL RICH
3. Prop Control FULL FORWARD
4. Throttle 2000 rpm
5. Magnetos . MAX DROP 175 RPM (diff 50)
6. Vacuum 4,9 - 5,1 Hg
7. Oil Temp CHECK
8. Oil Pressure CHECK
9. Annunciator Panel PRESS TO TEST
10. Propeller Control EXERCISE, MAX
DROP 500 rpm – then FULL FORWARD
11. Alternate Air CHECK
12. Electric Fuel Pump OFF
13. Fuel Pressure CHECK
14. Electric Fuel Pump ON
15. Throttle 1000 rpm

BEFORE TAKEOFF

1. Seat backs ERECT
2. Belts / Harness FASTENED
3. Empty seats .. BELTS SNUGLY FASTENED
4. Doors LATCHED
5. Master Switch ON
6. Flight Instrument CHECK
7. Fuel Selector PROPER TANK
9. Engine Gauges CHECK
10. Alternate Air CLOSED
11. Mixture SET
12. Prop Control FULL FORWARD
13. Flaps SET 0-10-25
14. Trim Tab SET N
15. Controls FREE
16. Gyro and Compass SET
17. **ENGINE FAILURE CHECKLIST .. REVIEW**

LINE UP

1. Parking Brake RELEASE
2. Landing Lights ON
3. Anti Coll Light (Strobe) ON
4. Pitot Heat AS REQ
5. Transponder ON
6. Gyro CHECK RUNWAY HEADING

TAKEOFF NORMAL

1. Flaps SET 0-10
2. Trim SET N
3. Power SET TO MAXIMUM
4. Lift Off 73 mph
5. Climb 106 mph
6. Landing Gear Lever UP
7. Flaps RETRACT

TAKEOFF SHORT FIELD

1. Flaps SET 25
2. Trim SET N
3. Brakes APPLY
4. Power SET TO MAXIMUM
5. Brakes RELEASE
6. Lift Off 61 mph
7. Climb 67 mph
8. Landing Gear Lever UP
9. Climb Obstacle 100 mph
10. Climb 106 mph
11. Flaps SLOWLY RETRACT

CLIMB

A CLIMB MAXIMUM POWER

1. Manifold Pressure MAXIMUM
2. Propeller Speed 2700 rpm
3. Mixture FULL RICH
4. Climb Speed .. BEST ANGLE 100 mph
BEST RATE 106 mph

B CRUISE CLIMB

1. Manifold Pressure 25 IN HG
2. Propeller Speed 2500 rpm
3. Mixture 21 GPH
4. Climb Speed 120 mph
5. Electric Fuel Pump OFF
CHECK PRESSURE
6. Landing Lights OFF
7. Altimeters Trans Alt SET 1013

CRUISING

1. Cruise Power SET 65%
2. Mixture ADJUST
3. Fuel Quantity & Balance MONITOR

NORMAL DESCENT

1. Power CRUISE
2. Mixture CRUISE SETTING
3. Airspeed AS REQ
4. Altimeters Trans Lev SET QNH

REDUCED POWER DESCENT

1. Throttle 18-21 IN HG(45-55%)
2. Mixture MAINTAIN >1350 EGT
3. Propeller Speed CRUISE SETTING
4. Airspeed AS REQ
6. Altimeters Trans Lev SET QNH

APPROACH AND LANDING

1. Seats ERECT
2. Belts/Harnesses FASTENED
3. Briefing Crew and Passenger AS REQ
4. Electric Fuel Pump ON
5. Fuel Selector PROPER TANK
7. Power SET
8. Prop Control FULL FORWARD
9. Mixture RICH
10. Gear DOWN MAX 150 mph (3 GREEN)
11. Landing Lights AS REQ
12. Flaps MAX 125 mph
14. Toe Brakes PRESS TO CHECK
15. Autopilot DISENGAGE
16. Approachspeed 86 mph (flaps down)

AFTER LANDING

1. Flaps RETRACT
2. Electric Fuel Pump OFF
3. Pitot Heat OFF
4. Exterior Lights AS REQ

SHUTDOWN AND PARKING

1. Radios & Electrical Equipment OFF
2. Prop Control FULL FORWARD
3. Throttle FULL AFT
4. Mixture IDLE CUT-OFF
5. Magnetos (Key Remove) OFF
6. Master Switch OFF

ENGINE POWER LOSS IN FLIGHT

1. Trim for **106 mph Power off glide speed.**
2. Fuel Selector SWITCH TANK
3. Electric Fuel Pump ON
4. Mixture RICH
5. Alternate Air OPEN
6. Engine Gauges CHECK

WHEN POWER IS RESTORED

7. Alternate Air CLOSED
8. Electric Fuel Pump OFF
9. Mixture AS REQUIRED

IF POWER IS NOT RESTORED.....

10. PREPARE FOR POWER OFF LANDING

POWER OFF LANDING

Trim for 106 mph Best Power off glide speed.

Locate suitable field. Establish spiral pattern. 1000 ft above field at downwind position for normal landing approach. When field can easily be reached slow to 86 mph IAS for shortest landing.

Touchdown should normally be made at lowest possible airspeed with flaps full extended.

GEAR DOWN LANDING

1. Landing Gear Lever DOWN
2. Ignition OFF
3. Master Switch OFF
4. Fuel Selector OFF
5. Mixture IDLE CUT OFF
6. Seat Belt & Harness TIGHT

GEAR UP LANDING

1. Landing Gear Lever UP
2. Ignition OFF
3. Master Switch OFF
4. Fuel Selector OFF
5. Mixture IDLE CUT OFF
6. Seat Belt & Harness TIGHT

FIRE IN FLIGHT

1. Source Of Fire CHECK

ELECTRICAL FIRE (Smoke in Cabin)

1. Master Switch OFF
2. Vents OPEN
3. Cabin heat OFF

LAND AS SOON AS POSSIBLE

ENGINE FIRE

1. Magneto switch OFF
2. Throttle CLOSED
3. Mixture IDLE CUT-OFF
4. Fuel Selector OFF
5. Electric Fuel Pump CHECK OFF
6. Master switch OFF
7. **PROCEED WITH POWER OFF LANDING**

EMERGENCY LANDING GEAR EXTENSION

Prior to emergency extension procedure:

1. Master switch CHECK ON
2. Circuit breakers CHECK
3. Radio lights OFF (in daytime)
4. Gear indicator bulbs CHECK

If landing gear does not check down and locked:

5. Airspeed BELOW 100 mph
6. Landing gear selector DOWN
7. Emergency gear lever HOLD
EMERGENCY GEAR LEVER
IN THE EMERGENCY DOWN POSITION
while fish tailing airplane
until gear is down and locked (under
normal conditions will take approx
10 seconds to be down and locked

If all electrical power has been lost, the landing gear must be extended using the above procedures. The gear position indicator light will not illuminate.

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