

WPR13LA384 Airplane Checklists

NORMAL PROCEDURES CHECKLIST PA28R-180

REVISION: AUG. 2005

BEFORE EXTERIOR CHECK

1. CERTS & DOCUMENTS CHECKED
2. ALL ELEC SWITCHES OFF
3. IGNITION SWITCH OFF
4. LANDING GEAR LEVER DOWN
5. WING FLAPS DOWN
6. MASTER SWITCH ON
7. FUEL GAGE CHECK
8. WARNING LIGHTS CHECK
9. EXTERIOR LIGHTS CHECK
10. MASTER SWITCH OFF

EXTERIOR CHECK

1. R WING FLAPS CHECK
2. R AILERON CHECK
3. R WING TIP, NAV LIGHT CHECK
4. R WING LEADING EDGE CHECK
5. R FUEL TANK AND CAP CHECK
6. R FUEL DRAIN CHECK
7. R FUEL VENT CHECK
8. R TIE DOWN REMOVE
9. R MAIN LANDING GEAR CHECK
10. R MAIN GEAR STRUT CHECK
11. R MAIN TIRE CHECK
12. R LANDING GEAR DOOR CHECK
13. R ENGINE COWLING CHECK
14. ENGINE OIL (6-8 QTS) CHECK
15. EXHAUST PIPE CHECK
16. PROPELLER SPINNER CHECK
17. PROPELLER BLADES CHECK
18. AIR INDUCTION CLEAR
19. NOSE GEAR CHECK
20. NOSE GEAR STRUT (3/4 IN.) CHECK
21. NOSE GEAR RETURN SPRING CHECK
22. NOSE TIRE CHECK
23. NOSE GEAR DOOR CHECK
24. HYDRAULIC LINES CHECK
25. GEAR CYLINDER CHECK
26. NOSE WHEEL CHOCK REMOVE
27. ENGINE FUEL DRAIN CHECK
28. L ENGINE COWLING CHECK
29. L WING LEADING EDGE CHECK
30. L LANDING GEAR DOOR CHECK
31. L MAIN TIRE CHECK
32. L MAIN LANDING GEAR CHECK
33. L MAIN GEAR STRUT CHECK
34. L TIE DOWN REMOVE
35. L FUEL VENT CHECK
36. L FUEL DRAIN CHECK
37. L FUEL TANK AND CAP CHECK
38. STALL VANE CHECK
39. PITOT STATIC TUBE CHECK
40. L WING LEADING EDGE CHECK
41. L WING TIP, NAV LIGHT CHECK
42. L AILERON CHECK
43. L WING FLAPS CHECK
44. L FUSELAGE CHECK
45. L HORIZONTAL STABILIZER CHECK
46. VERTICAL STABILIZER CHECK
47. TAIL CONE CHECK
48. TAIL TIE DOWN REMOVE
49. R HORIZONTAL STABILIZER CHECK

50. R FUSELAGE CHECK
51. R BAGGAGE DOOR CHECK
52. STEP CHECK

ENGINE START CHECK

1. DOORS CLOSED & LOCKED
2. PAX BRIEFING COMPLETE
3. SEAT & BELT ADJUST & FASTENED
4. BRAKES CHECK
5. CIRCUIT BREAKERS CHECK IN
6. AVIONICS OFF
7. ANTI COLLISION LIGHT ON
8. FUEL BOOST PUMP OFF
9. MASTER SWITCH ON

COLD START

1. MIXTURE CUT OFF
2. PROPELLER FULL FORWARD
3. THROTTLE OPEN 1/2 IN
4. FUEL BOOST PUMP ON
5. MIXTURE RICH
6. FUEL FLOW CHECK
7. MIXTURE CUT OFF
8. IGNITION START
- Max. 30 sec. followed by 120 sec. cool down
9. MIXTURE slowly to RICH as engine fires
10. THROTTLE 1000 RPM
11. ENGINE INSTRUMENTS CHECK
12. FUEL BOOST PUMP OFF

HOT START

1. MIXTURE CUT OFF
2. PROPELLER FULL FORWARD
3. THROTTLE OPEN 1/2 IN
4. FUEL BOOST PUMP ON
5. IGNITION START
6. CRANKING 10 SEC
- Max. 30 sec. followed by 120 sec. cool down
7. MIXTURE slowly to RICH as engine fires
8. THROTTLE 1000 RPM
9. ENGINE INSTRUMENTS CHECK
10. FUEL BOOST PUMP OFF

FLOODED START

1. MIXTURE CUT OFF
2. PROPELLER FULL FORWARD
3. THROTTLE FULL OPEN
4. FUEL BOOST PUMP OFF
5. IGNITION START
6. CRANKING 10 SEC
- Max. 30 sec. followed by 120 sec. cool down
7. THROTTLE 1000 RPM
8. MIXTURE slowly to RICH as engine fires
9. ENGINE INSTRUMENTS CHECK

IF NO OIL PSI WITHIN 30 SEC. SHUT
ENGINE DOWN !

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BEFORE TAXI CHECK

1. RADIOS ON
2. TRANSPONDER STBY
3. FLAPS UP
4. TAXI LIGHT AS REQ.

TAXI CHECK

1. BRAKES CHECK
2. FLIGHT INSTRUMENTS CHECK

ENGINE RUNUP CHECK

1. BRAKES HOLD
2. FLIGHT CONTROLS.. FREE & CORRECT
3. TRIM TEST AND SET FOR T/O
4. FUEL TANK FULLEST TANK
5. MIXTURE RICH
6. PROP FULL FORWARD
7. THROTTLE 2300 RPM
8. ENGINE INSTRUMENTS CHECK
9. VOLTMETER CHECK
10. SUCTION CHECK
11. MAGS R, L, BOTH
MAX DROP 125 RPM
MAX DIFFERENCE 50 RPM
12. FUEL BOOST PUMPS ... ON, CHECK PSI
..... THEN OFF
13. PROPELLER CONTROL CYCLE
14. THROTTLE 1200 RPM

BEFORE TAKEOFF CHECK

1. TRIM SET FOR TAKEOFF
2. FUEL BOOST PUMP ON
3. FLAPS SET
4. TRANSPONDER ALT
5. LANDING LIGHT ON

AFTER TAKEOFF CHECK (500 ft.)

1. GEAR UP
2. FLAPS UP
3. THROTTLE 25"
4. PROP 2500 RPM
5. MIXTURE ADJUST
6. FUEL BOOST PUMPS ... OFF, CHECK PSI
7. FUEL CAPS CHECK
8. CRUISE CLIMB 110 MIAS
9. LIGHTS AS REQUIRED

CRUISE CHECK

1. THROTTLES 19"
2. PROPS 2300
3. MIXTURES MAX EGT minus 25°F

DESCENT CHECK

1. SEAT BELTS / HARNESS CHECK
2. ALTIMETER SET
3. MIXTURE SET (CHT IN GREEN)

BEFORE LANDING CHECK

1. FUEL BOOST PUMPS ON
2. FUEL SELECTOR FULLEST TANKS
3. MIXTURE RICH
4. GEAR DOWN, 3 GREEN
5. FLAPS AS REQUIRED
6. PROPELLER FULL FWD

AFTER LANDING CHECK

1. FLAPS UP
2. FUEL BOOST PUMPS OFF
3. TRANSPONDER OFF
4. LANDING LIGHT AS REQ.

SHUTDOWN CHECK

1. THROTTLES IDLE
2. COMM RADIO 121.5 CHECK
3. RADIOS OFF
4. IGNITION GND CHECK COMPLETE
5. THROTTLE 1000 RPM
6. MIXTURES IDLE CUTOFF
7. ANTI COLLISION LIGHT OFF
8. NAV LIGHTS OFF
9. IGNITION OFF / KEY OUT
10. MASTER SWITCH OFF
11. HOBBS / TACH TIME NOTE
12. DOOR, WINDOW CLOSED, LOCKED
13. CHOCKS IN PLACE
14. TIEDOWNS SECURE

SPEEDS

V _{SO}	63 MIAS
V _{SI}	69 MIAS
V _X	88 MIAS
V _Y	100 MIAS
V _A 2500 LBS.	134 MIAS
CHANDELLE / LAZY EIGHT	120 MIAS
STEEP TURN	112 MIAS
V _{NO}	170 MIAS
V _{NE}	214 MIAS
V _{FE}	125 MIAS
V _{LO}	150 MIAS
V _{RET}	125 MIAS
V _R	65 MIAS
V _{GLIDE} FLAPS UP	88 KIAS
V _{GLIDE} FLAPS FULL	82 KIAS
NORMAL APP	90 MIAS
SHORT / SOFT FIELD APP	85 MIAS
FLAP SETTINGS	
NORMAL TAKEOFF	0°
SHORT / SOFT FIELD TAKEOFF	25°

CAUTION

Avoid propeller ops between 2000 and 2300 RPM.

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SKYWALK INC. EMERGENCY PROCEDURES CHECKLIST PA28R-180
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ENGINE FAILURE

DURING TAKEOFF RUN

1. THROTTLE IDLE
2. BRAKES APPLY
3. WING FLAPS RETRACT
4. MIXTURE IDLE CUTOFF
5. IGNITION SWITCH OFF
6. MASTER SWITCH OFF

AFTER TAKEOFF

1. AIRSPEED FLAPS UP 88 MIAS
2. AIRSPEED FLAPS DOWN 82 MIAS
3. MIXTURE IDLE CUTOFF
4. FUEL SELECTOR OFF
5. IGNITION SWITCH OFF
6. WING FLAPS FULL DOWN
7. MASTER SWITCH OFF

ENGINE FAILURE DURING FLIGHT

1. AIRSPEED 88 MIAS
2. ALTERNATE AIR OPEN
3. LANDING GEAR UP
4. MASTER SWITCH ON
5. FUEL BOOST PUMP ON
6. FUEL SELECTOR OTHER SIDE
7. MIXTURE RICH
8. PROP FULL FORWARD
9. THROTTLE IDLE POSITION
10. IGNITION SWITCH BOTH

Start if propeller is NOT wind milling

EMERGENCY LANDING WITHOUT POWER

1. AIRSPEED FLAPS UP 88 MIAS
2. AIRSPEED FLAPS DOWN 82 MIAS
3. MIXTURE IDLE CUTOFF
4. FUEL SELECTOR OFF
5. IGNITION SWITCH OFF
6. WING FLAPS FULL DOWN
7. MASTER SWITCH OFF
8. DOORS UNLATCH PRIOR TO TD
9. TOUCHDOWN SLIGHTLY TAIL LOW
10. BRAKES APPLY HEAVILY

FIRES

ENGINE FIRE DURING START ON GROUND

1. CRANKING CONTINUE
2. IF ENGINE STARTS 1700 RPM
3. AFTER A FEW MINUTES SHUT DOWN

IF ENGINE DOES NOT START

4. CRANKING CONTINUE
5. SECURE ENGINE
6. MASTER SWITCH OFF
7. FUEL BOOST PUMP OFF
8. IGNITION SWITCH OFF
9. FUEL SHUTOFF VALVE OFF

ENGINE FIRE IN FLIGHT

1. MIXTURE IDLE CUT OFF
2. FUEL BOOST PUMP OFF
3. FUEL SELECTOR OFF
4. MASTER SWITCH OFF
5. CABIN HEAT & AIR OFF
6. AIRSPEED 134 MIAS
7. IF FIRE NOT EXTINGUISHED INCREASE AIRSPEED
8. FORCED LANDING EXECUTE

ELECTRICAL FIRE IN FLIGHT

1. MASTER SWITCH OFF
2. ALL OTHER SWITCHES OFF
3. VENTS / CABIN AIR / HEAT CLOSED
4. FIRE EXTINGUISHER ACTIVATE

IF ELECTRICAL POWER IS REQUIRED TO CONTINUE FLIGHT:

5. MASTER SWITCH ON
6. CB'S CHECK
7. RADIO / ELEC. EQUIP ON one at a time
8. VENTS / CABIN AIR / HEAT OPEN

WHEN FIRE EXTINGUISHED

ELECTRICAL MALFUNCTIONS

EXCESSIVE RATE OF CHARGE

1. MASTER SWITCH OFF
2. FLIGHT TERMINATE

NEGATIVE RATE OF CHARGE

1. RADIOS OFF
2. MASTER SWITCH OFF
3. MASTER SWITCH ON
4. AMMETER CHECK
5. RADIOS ON

NEGATIVE CHARGE REMAINS

6. MASTER SWITCH OFF
7. ELECTRICAL LOAD REDUCE
8. FLIGHT DISCONTINUE

LANDING GEAR MALFUNCTION

EMERGENCY LDG GEAR EXTENSION

1. MASTER SWITCH ON
2. LDG GEAR CB IN
3. LANDING GEAR SELECTOR DOWN
4. AIRSPEED 100 MIAS
5. EMERGENCY GEAR LEVER UP
6. EMERGENCY GEAR LEVER DOWN
7. LDG GEAR LIGHTS 3 GREEN

NOTE

For additional guidance and amplified procedures consult the latest revision of the Pilot Operating Handbook.