GROUND OPERATION PROCEDURES — Cessna 182P — N58628

CABIN

1. Required Documents ..... A.R.O.W.
2. Control Wheel Lock ..... REMOVE
3. Ignition Switch ..... OFF / KEY ON DASH
4. Avionics Power Switch ..... OFF
5. Master Switch ..... ON
6. Avionics Master Switch ..... ON
7. Avionics Cooling Fan ..... AUDIBLE
8. Avionics Master Switch ..... OFF
9. Fuel Quantity Indicators ..... CHECK
10. Flaps ..... FULL DOWN
11. Cowl Flaps ..... OPEN
12. All Exterior Lights ..... ON
13. Pitot Cover ..... REMOVED
14. Pitot Heat ..... ON
15. Check Operation of :
    ..... Nav/Strobe, Beacon, and Landing Light
16. Stall Warning ..... CHECKED
17. Pitot Tube ..... CLEAR / WARM
18. Exterior Lights ..... All OFF, BEACON ON
19. Pitot Heat ..... OFF
20. Master Switch ..... OFF
21. Alternate Static ..... DRAINED/CLOSED
22. Fuel Selector ..... BOTH
23. Oil Level: Loosen dipstick and let oil settle

EMPENNAGE

1. Baggage Door ..... CHECK
2. Rudder Gust Lock (if installed) ..... REMOVE
3. Tail Tie-Down ..... DISCONNECT
4. Control Surfaces ..... CHECK
5. Airplane Antennas ..... CHECK

RIGHT WING

1. Flap and Aileron ..... CHECK
2. Wing Tip ..... CHECK
3. Leading Edge ..... CHECK
4. Wing Tie-Down ..... REMOVE
5. Overhead Cabin Vent Inlets ..... CHECK
6. Main Wheel Tire / Brake ..... CHECK
7. Fuel Tank Sump ..... DRAIN / CHECK
8. Fuel Quantity ..... CHECK VISUALLY
9. Fuel Filler Cap ..... *vent unobstructed* SECURE

NOSE

1. Static Source Opening (both sides) ..... CHECK
2. Propeller and Spinner ..... CHECK
3. Landing Light Covers ..... CHECK
4. Carburetor Air Inlet ..... CHECK
5. Nose Wheel Strut and Tire ..... CHECK
6. Nose Tie-Down ..... REMOVE
7. Engine Cowling ..... CHECK
8. Engine Oil Level ..... 9-*12 quarts* CHECK
9. Fuel Strainer ..... *2 seconds* PULL

LEFT WING

1. Overhead Cabin Vent Inlets ..... CHECK
2. Main Wheel Tire / Brake ..... CHECK
3. Fuel Tank Sump ..... DRAIN / CHECK
4. Fuel Quantity ..... CHECK VISUALLY
5. Fuel Filler Cap ..... *vent unobstructed* SECURE
6. Leading Edge ..... CHECK
7. Stall Warning Vane ..... CHECK
8. Fuel Tank Vent Opening ..... CHECK
9. Wing Tie-Down ..... REMOVE
10. Wing Tip ..... CHECK
11. Aileron and Flap ..... CHECK

V-SPEEDS MPH		INFO * 3100# GW	
Vso	57 *50	Oil (full/min)	12 / 9
Vs1	64 *58	Fuel [use]	84 {79]
Vr	60	MRampW	3110
Vx F20 Fup	60 *63 70 *73	MGTOW	*3100
Vy	89 *91	MGLW	2950
Vg	80 *86	Demo Xwind	15
Vfe/10° Vfe/>10	160 110	App FL DN App FL UP	70 - 80 80 - 90
Va	90-126 *128		
Vno	160		
Vne	198		

BEFORE STARTING ENGINE

1. Preflight Inspection ..... COMPLETE
2. Passenger Briefing ..... COMPLETE
3. Seats/SeatBelts ..... ADJUST, LOCK
4. Fuel selector valve ..... BOTH
5. Av. Pwr Switch, Elect. Equip ..... OFF
6. Brakes ..... TEST; SET/HOLD
7. Cowl Flaps ..... OPEN
8. Circuit Breakers ..... CHECK IN

GROUND OPERATION PROCEDURES — Cessna 182P — N58628

STARTING ENGINE (With Battery)

1. Beacon ..... ON
2. Mixture ..... RICH
3. Propeller ..... HIGH RPM
4. Carburetor Heat ..... COLD
5. Throttle ..... OPEN 1/2"
6. Prime ..... As Required
7. Propeller area ..... CLEAR
8. Master switch ..... ON
9. Ignition switch ..... START
10. Oil pressure ..... CHECK
11. Throttle ..... 1000 RPM or LESS
12. Mixture ..... LEAN, If Required
13. Nav, strobe lights ..... ON, as REQ'd
14. Avionics power switch & radios ..... ON
15. Transponder ..... ALT
16. Flaps ..... RETRACT
17. GPS ..... Initial fuel; Runway diagram
18. ATIS / Altimeter ..... SET
19. Taxi Lights ..... ON as REQ'd

RUNUP

1. Parking Brake ..... SET or HOLD
2. Seat & Seat Belts ..... CHECK SECURE
3. Doors & Windows ..... CLOSED/LOCKED
4. Flight controls ..... FREE and CORRECT
5. Flight Instruments ..... CHECK & SET
   ..... (Heading & Altimeter)
6. Fuel Quantity ..... CHECK
7. Fuel Selector Valve ..... BOTH
8. Mixture ..... RICH
9. Elevator/Rudder Trim ..... set for TAKEOFF
10. Throttle ..... 1700 RPM
    a. Magnetos ..... CHECK BOTH (175/50)
    b. Carburetor heat ..... CHECK/COLD
    c. Propeller ..... CYCLE high-low-high 3x
    d. Engine instruments ..... CHECK
    e. Suction Gage ..... CHECK
    f. Ammeter ..... CHECK alt with load
    g. Throttle ..... 1000 RPM
11. Throttle friction lock ..... ADJUST
12. Radios and Avionics ..... SET
13. Navigaton/GPS ..... SET as REQ'd
14. Autopilot ..... TEST, OFF

BEFORE TAKEOFF

1. Doors & Windows ..... CLOSED/LOCKED
2. Fuel Quantity ..... CHECK
3. Fuel Selector Valve ..... BOTH
4. Carb Heat ..... COLD
5. Mixture ..... RICH
6. Propeller ..... HIGH RPM
7. Cowl Flaps ..... OPEN
8. Elevator/Rudder Trim ..... set for TAKEOFF
9. Wing flaps ..... as REQ'd
10. At runway ..... Lights As Req'd;

INFLIGHT CHECKS ON SECOND CARD

SECURING AIRPLANE

1. Parking Brake ..... SET or HOLD
2. Throttle ..... 1500 RPM
   a. Mixture ..... LEANED, 20 seconds
   b. Avionics ..... CHECK 121.5
3. Throttle ..... REDUCE as REQ'd
4. Parking Brake ..... RELEASED
5. All lights ..... As Req'd
6. Power ..... IDLE
7. Avionics Pwr Switch, Elect. Equip ..... OFF
8. Exterior, Interior & Panel Lights ..... OFF
9. Beacon Light ..... ON
10. Magneto Ground ..... CHECK
11. Mixture ..... IDLE CUT OFF
12. Ignition Switch ..... OFF
13. Aircraft Keys ..... ON DASH
14. Master Switch ..... OFF
15. Fuel Selector ..... RIGHT TANK
16. Gust Lock ..... INSTALLED
17. Pitot Cover ..... INSTALLED
18. Wheel Chocks ..... INSTALLED
19. Tie Downs ..... INSTALLED
20. Tires and Aircraft ..... INSPECTED

FIRE DURING START

1. Cranking ..... CONTINUE

If engine starts:

2. Power ..... 1,700 RPM for a few minutes
3. Engine ..... SHUTDOWN

If engine fails to start:

4. Throttle ..... FULL OPEN
5. Mixture ..... IDLE CUT OFF
6. Cranking ..... CONTINUE
7. Fire Extinguisher ..... OBTAIN
8. Master Switch ..... OFF
9. Ignition Switch ..... OFF
10. Fuel Selector ..... OFF
11. Fire Extinguisher ..... ACTIVATE
12. Airplane ..... EVACUATE

TO BE USED IN CONJUNCTION WITH THE APPROVED CESSNA CHECKLIST

REV A 0APR21

IN-FLIGHT NORMAL PROCEDURES — Cessna 182P — N58628

NORMAL TAKEOFF
1. Wing Flaps ..... 0 - 20°
2. Carburetor Heat ..... COLD
3. Throttle ..... FULL OPEN and 2700 RPM
4. Rotate ..... **60 MPH**
5. Climb Speed ..... 80 MPH (flaps 20°)
..... **90 MPH (flaps Up)**
6. Wing Flaps ..... RETRACT
7. Noise abatement @ 500': 23" and 2100rpm

SHORT FIELD TAKEOFF
1. Wing Flaps ..... **20°**
2. Carburetor Heat ..... COLD
3. Brakes ..... APPLY
4. Throttle ..... FULL OPEN and 2700 RPM
5. Mixture ..... RICH (LEAN max RPM > 3000')
6. Brakes ..... RELEASE
7. Elevator Control ..... SLIGHTLY TAIL LOW
8. Climb Speed ..... **60(*63)** until clear obstacles
9. Wing flaps ..... RETRACT after 80 mph

ENROUTE CLIMB
1. Airspeed Normal..110-100 MaxPerf...89-85
2. Power Normal 23"/2450 MaxPerf Full/2700
3. Fuel selector valve ..... BOTH
4. Mixture ..... RICH (LEAN max RPM > 5000')
5. Cowl flaps ..... OPEN, as Req'd

CRUISE
1. Power .... .. 15-23", 22k-25k RPM (75% Max)
2. Elevator/Rudder trim ..... ADJUST
3. Mixture ..... LEAN as REQ'd
4. Cowl flaps ..... CLOSED, as REQ'D

DESCENT
1. Power ..... as REQ'd
2. Carburetor Heat ..... FULL, as req'd
3. Mixture ..... ENRICHEN, as REQ'd
4. Cowl flaps ..... CLOSED
5. ATIS/Altimeter ..... SET
6. NAV/GPS Switch ..... SET
7. Fuel selector valve ..... BOTH
8. Wing Flaps ..... AS DESIRED

BEFORE LANDING
1. Seats/SeatBelt ..... UPRIGHT,ADJUST,LOCK
2. Fuel Selector Valve ..... BOTH
3. Mixture ..... RICH (or as REQ'd)
4. Carburetor Heat ..... ON
5. Propeller ..... HIGH RPM
6. Landing/Taxi Lights ..... ON
7. Autopilot ..... DISCONNECT

NORMAL LANDING
1. Wing flaps ..... as DESIRED (< 160/110mph)
2. Airspeed ..... **80-90mph (flaps UP)**
..... **70-80mph (flaps down)**
3. Touchdown ..... MAIN WHEELS FIRST
4. Landing Roll ..... LOWER NOSE WHEEL
5. Braking ..... MINIMUM REQUIRED

SHORT-FIELD LANDING
1. Wing Flaps ..... FULL DOWN 40°
2. Airspeed ..... **69** mph
3. Throttle ..... CLOSED after obstacles
4. Touchdown ..... MAIN WHEELS FIRST
5. Brakes ..... APPLY HEAVILY–don't lock brakes
6. Wing flaps ..... RETRACT

BALKED LANDING
1. Throttle ..... FULL OPEN and 2700 RPM
2. Carburetor Heat ..... COLD
3. Wing Flaps ..... RETRACT TO 20°
4. Climb speed ..... 70 mph
5. Wing Flaps ..... RETRACT after 80 mph
6. Cowl Flaps ..... OPEN

AFTER LANDING
1. Wing Flaps ....UP
2. Carburetor Heat ..... COLD
3. Cowl Flaps ..... OPEN
4. Taxi & Landing Light ..... ON as REQ'd
5. Transponder ..... ALT

STOP & GO / FULL STOP TAXI BACK
1. Doors & Windows ..... CLOSED/LOCKED
2. Fuel Selector Valve ..... BOTH
3. Elevator / Rudder Trim ..... set for TAKEOFF
4. Cowl Flaps ..... OPEN
5. Wing flaps ..... as REQ'd
6. Mixture ..... RICH
7. Propeller ..... FULL
8. Carburetor Heat ..... COLD
9. At runway-All lights ..... ON

Vso	**57 *50**	**Oil** (full/min)	**12 / 9**
Vs1	**64 *58**	**Fuel** [use]	**84 [79]**
Vr	**60**	**M Land wt**	**2950**
Vx F20 F up	**60 *63 70 *73**	**M Ramp Wt MGTOW**	**3110 *3100**
Vy	**89 *91**	**Demo Xwind**	**15**
Vg	**80 *86**	**App FL DN**	**70 - 80**
Vfe/10°	**160**	**App FL UP**	**80 - 90**
Vfe/>10	**110**	**Vno**	**160**
Va	**90-126 *128**	**Vne**	**198**

TO BE USED IN CONJUNCTION WITH THE APPROVED CESSNA CHECKLIST

IN-FLIGHT EMERGENCY PROCEDURES — Cessna 182P — N58628

ENGINE FAILURE DURING FLIGHT
1. Airspeed ..... 80 mph *86mph
2. Carburetor Heat ..... ON
3. Fuel Selector Valve ..... BOTH
4. Mixture ..... RICH
5. Ignition Switch ..... BOTH or START
6. Primer ..... IN and LOCKED

ENGINE FIRE IN FLIGHT
1. Mixture ..... IDLE CUT OFF
2. Fuel Selector Valve ..... OFF
3. Master Switch ..... OFF
4. Cabin Heat/Air. OFF(except overhead vents)
5. Airspeed ..... 100 mph (To extinguish fire)
6. Forced Landing ... EXECUTE

EMERGENCY LANDING NO POWER
1. Airspeed ..... (flaps UP) 80 mph *86 mph.
..... (flaps DOWN) 75 mph *80 mph
2. Mixture ..... IDLE CUT OFF
3. Fuel Selector Valve ..... OFF
4. Ignition Switch ..... OFF
5. Wing Flaps .... AS REQ'D (40° recommended)
6. Doors ..... UNLATCH prior to touchdown
7. Master Switch ..... OFF (landing assured)
8. Touchdown ..... SLIGHTLY TAIL LOW
9. Brakes ..... APPLY HEAVILY

DITCHING
1. Radio ..... TRANSMIT MAYDAY on 121.5
2. Transponder ..... SQUAWK 7700
3. ELT ..... ACTIVATE
4. Heavy objects ..... SECURE or JETTISON
5. Flaps ..... 20°-40°
6. Power....Set for 300 fpm descent @ 70 mph
7. Approach:
High winds, heavy seas ..... INTO THE WIND
Light winds, heavy swells PARALLEL TO SWELLS
8. No power....80 mph F up / 75 mph F 10°
9. Cabin doors ..... UNLATCH
10. Touchdown ..... LEVEL ATTITUDE
11. Face ..... CUSHION at touchdown
12. Airplane. Evacuate by door (open window)
13. LifeVests/Raft ..... CLEAR of A/C INFLATE

ELECTRICAL FIRE IN FLIGHT
1. Master Switch ..... OFF
2. Vents/Cabin Air/Heat ..... CLOSED
3. Fire Extinguisher ..... ACTIVATE
4. Avionics Master Switch ..... OFF
5. All Other Switches (except ignition) ..... OFF
If Fire is CONFIRMED OUT ..... Ventilate Cabin
6. Vents/Cabin Air/Heat ..... OPEN (if fire is out)
If fire is out & elec. power is necessary:
7. Master Switch ..... ON
8. Circuit Breakers ..... CHECK (Don't RESET)
9. Radio Switches ..... OFF
10. Avionics Master Switch ..... ON
11. Radio/Electrical Switches ..... ON(1 at time)

CABIN FIRE
1. Master Switch ..... OFF
2. Vents/Cabin Air/Heat . CLOSED(avoids draft)
3. Fire Extinguisher ..... ACTIVATE
If Fire is CONFIRMED OUT ..... Ventilate Cabin
4. Vents/Cabin Air/Heat ..... OPEN (if fire is out)
5. Land the airplane as soon as possible

WING FIRE
1. Landing/Taxi Light Switches ..... OFF
2. Navigation Light Switch ..... OFF
3. Strobe Light Switch ..... OFF
4. Pitot Heat Switch ..... OFF
5. Sideslip ..... NOSE TO SIDE WITH FIRE

OVER-VOLTAGE LIGHT ILLUMINATES
1. Avionics Power Switch ..... OFF
2. Master Switch ..... OFF (both sides)
3. Master Switch ..... ON (both sides)
If VOLTS stays off: Avionics Pwr Switch .... ON
If VOLTS comes on: Flight ..... TERMINATE

AMMETER SHOWS DISCHARGE
1. Alternator ..... OFF
2. Nonessential Electrical Equip ..... OFF
3. Flight ..... LAND as soon as practical.

AUTOPILOT or TRIM MALFUNCTION
1. Control Wheel ..... GRASP FIRMLY & CONTROL
2. A/P ..... DISCONNECT
3. Aircraft ..... RE-TRIM manually as needed
4. Autopilot Circuit Breaker ..... PULL

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