

# PREFLIGHT CHECKLIST PA-34-200

## COCKPIT AND CABIN

MAINTENANCE STATUS ..... VERIFIED / CLEARED  
 HOBBS / TACH METERS ..... RECORDED  
 POH / AIRCRAFT DOCUMENTS ..... CHECKED  
 PARKING BRAKE ..... ON  
 FLIGHT CONTROLS (**RELEASE SLOWLY**) .... FREE / CORRECT  
 FUEL SELECTORS (feel for detent) ..... EXERCISE, then ON  
 TRIM WHEELS (2) ..... EXERCISE, then TAKEOFF  
 FLAP LEVER ..... EXTEND, then RETRACT  
 COWL FLAPS (2) ..... EXERCISE, then OPEN  
 CIRCUIT BREAKERS ..... CHECK IN  
 AVIONICS MASTER ..... OFF  
 ELT SWITCH ..... OFF  
 MIXTURES ..... IDLE CUT- OFF  
 PROPS ..... FULL FWD / MAX RPM  
 THROTTLES ..... CLOSED  
 ALTERNATE AIR SOURCES (2) ..... EXERCISE, then OFF  
 LANDING GEAR SELECTOR ..... DOWN  
 AUTOPILOT ..... OFF  
 MASTER SWITCH ..... OFF  
 ALL ELECTRICAL SWITCHES ..... OFF  
 MAGNETO SWITCHES (4) ..... OFF  
 MASTER SWITCH ..... ON  
 ALTERNATOR OVERVOLTAGE LIGHTS (2) ..... PUSH TO TEST  
 BATTERY VOLTAGE (not below 11 V) ..... CHECKED  
 LANDING GEAR LIGHTS ..... 3 GREEN / NO RED  
 FUEL GAUGES ..... CHECKED / ADEQUATE  
 FUEL PUMPS (2) ..... CHECKED, then OFF  
 PITOT HEAT ..... CHECKED, then OFF  
 STALL INDICATOR HORN and LIGHT ..... CHECKED  
 LIGHTS (Exterior/Interior) ..... CHECKED  
 AUTOPILOT ..... (as required) TESTED, then OFF  
 MASTER SWITCH ..... OFF  
 PITOT STATIC SYSTEM / ALTERNATE .... DRAINED / CHECKED  
 WINDSHIELD ..... (if needed) CLEANED

## RIGHT WING AND ENGINE

RIGHT MAIN GEAR / TIRE / BRAKE / WHEEL WELL .... CHECKED  
 FLAP / AILERON / HINGES / STATIC WICK ..... CHECKED  
 WING TIP / LIGHTS ..... CHECKED  
 LEADING EDGE / VORTEX GENERATORS ..... CHECKED  
 TIE DOWN ..... REMOVED

COWL FLAP.....CHECKED  
 OIL LEVEL / COWL.....CHECKED / SECURE  
 PROPELLER AND SPINNER .....CHECKED  
 AIR INLET AND COWL OPENINGS (5)..... CHECKED  
 FUEL DRAINS (5) .....DRAINED / CHECKED  
 FUEL OVERFLOW VENT .....CHECKED  
 FUEL QUANTITY / FUEL CAP..... CHECKED / SECURE

### NOSE

BATTERY VENT ..... UNOBSTRUCTED  
 NOSE GEAR..... CHECKED  
 LANDING LIGHTS (2) .....CHECKED  
 BRAKE FLUID LEVEL.....CHECKED  
 FORWARD BAGGAGE / DOOR ..... SECURE / LOCKED  
 WINDSHIELD..... CLEAN / SECURE

### LEFT WING AND ENGINE

FUEL DRAINS (3) .....DRAINED / CHECKED  
 FUEL OVERFLOW VENT .....CHECKED  
 FUEL QUANTITY / FUEL CAP..... CHECKED / SECURE  
 AIR INLET AND COWL OPENINGS (5)..... CHECKED  
 PROPELLER AND SPINNER .....CHECKED  
 OIL LEVEL / COWL.....CHECKED / SECURE  
 COWL FLAP.....CHECKED  
 TIE DOWN ..... REMOVED  
 PITOT TUBE .....CHECKED  
 STALL WARNING VANES (2).....CHECKED  
 LEADING EDGE / VORTEX GENERATORS.....CHECKED  
 WING TIP / LIGHTS .....CHECKED  
 FLAP / AILERON / HINGES / STATICK WICK .....CHECKED  
 LEFT MAIN GEAR / TIRE / BRAKE / WHEEL WELL.....CHECKED

### FUSELAGE and EMPENNAGE

ANTENNAS, LEFT .....CHECKED  
 PAX and CARGO DOOR ..... SECURED  
 STATIC PORT, LEFT ..... CLEAR  
 STABILATOR AND TRIM TAB..... CHECKED  
 RUDDER AND TRIM TAB.....CHECKED  
 VORTEX GENERATORS / VERTICAL STAB.....CHECKED  
 TAIL TIE DOWN..... REMOVED  
 STATIC PORT, RIGHT ..... CLEAR  
 ANTENNAS, RIGHT..... CHECKED

**360° WALK AROUND ..... COMPLETE**

**NORMAL CHECKLIST PA-34-200****BEFORE START**

PARKING BRAKE ..... ON  
 PASSENGER BRIEF ..... COMPLETE  
 SEATBELTS / SHOULDER HARNESSSES..... ON / CHECKED  
 FUEL SELECTORS .....ON  
 FLAPS..... UP / CONFIRMED  
 COWL FLAPS ..... OPEN  
 CIRCUIT BREAKERS ..... IN  
 AVIONICS SWITCH ..... OFF  
 MIXTURES..... IDLE CUT-OFF  
 PROPS..... FULL FORWARD  
 THROTTLES..... OPEN ½ INCH  
 ALTERNATE AIR ..... OFF  
 LANDING GEAR SELECTOR .....DOWN  
 ALTERNATOR SWITCHES .....ON

**ENGINE START (LEFT, then RIGHT)**

MASTER SWITCH..... ON  
 LIGHTS.....ON  
*ENGINE START (SOP)*..... COMPLETE  
 OIL PRESSURE .....CHECKED

**REPEAT FOR THE SECOND ENGINE**

FUEL PUMPS (2) ..... OFF  
 FUEL PRESSURES (2) .....CHECKED  
 MIXTURES (2) ..... (as required) LEANED FOR TAXI

**BEFORE TAXI**

AVIONICS SWITCH .....ON  
 AMMETERS.....CHECKED  
 ENGINE INSTRUMENTS..... CHECKED  
 AVIONICS / TRANSPONDER.....SET / CHECKED  
 FLIGHT INSTRUMENTS / ALTIMETER / HDG.... SET / CHECKED  
 PARKING BRAKE ..... OFF

**TAXI**

BRAKES.....CHECKED  
*FUEL SYSTEM CROSSFEED CHECK (SOP)*..... COMPLETE  
*FLIGHT INSTRUMENTS TAXI CHECK (SOP)* ..... COMPLETE

**BEFORE TAKEOFF / RUNUP**

PARKING BRAKE ..... ON  
 FLIGHT CONTROLS..... FREE / CORRECT  
 FUEL SELECTORS (feel for detent) .....ON  
 ELECTRIC TRIM..... TESTED  
 TRIM (2) ..... SET FOR TAKEOFF

MIXTURES.....FULL RICH  
 PROPS.....FORWARD  
 THROTTLES ..... 1,500 RPM  
 PROPS FEATHER (1000 rpm drop < 3 seconds) .....CYCLED  
 THROTTLES..... 2,000 RPM  
 PROP GOVERNOR (to 1700 rpm x 3) ..... EXERCISED  
 ALTERNATE AIR (check for rpm drop) .....ON, THEN OFF  
 MAGNETOS (4) .....CHECKED (100-175/50) / ON  
 ALTERNATOR OUTPUT (2) ..... CHECKED / EQUAL  
 FUEL QUANTITY .....VERIFIED  
 ENGINE INSTRUMENTS .....CHECKED  
 VACUUM GAUGES (4.9"-5.1")..... CHECKED  
 THROTTLE ..... 800 -1000 RPM

FLIGHT INSTRUMENTS..... DEPARTURE  
 AVIONICS / TRANSPONDER..... DEPARTURE  
 DEPARTURE BRIEF..... COMPLETED  
 PARKING BRAKE ..... OFF

**TAKEOFF / AT RUNWAY**

TRIM (2) .....TAKEOFF  
 FLAPS.....TAKEOFF/ CONFIRMED  
 ENGINE INSTRUMENTS.....CHECKED  
 HDG / MAG COMPASS .....SET / CHECKED  
 AUTOPILOT .....OFF  
 DOORS ..... LATCHED

FUEL PUMPS.....ON  
 LIGHTS / PITOT HEAT..... (as required) ON  
 TRANSPONDER ..... ALT

**CLIMB**

FLAPS ..... UP  
 GEAR ..... UP  
 ENGINE INSTRUMENTS.....CHECKED  
 COWL FLAPS ..... (as required) ADJUSTED

**1000' AGL**

CLIMB POWER.....(as required) SET  
 FUEL PUMPS (one at a time, L then R) ..... OFF  
 FUEL FLOW ..... CHECKED

**CRUISE**

CRUISE POWER .....SET  
 MIXTURES..... (as required) LEANED  
 ENGINE INSTRUMENTS.....CHECKED  
 COWL FLAPS ..... (as required) ADJUSTED  
 LIGHTS..... (as required) ON  
 HEADING INDICATOR..... ALIGNED

**DESCENT / APPROACH**

FUEL SELECTORS .....ON  
 COWL FLAPS ..... (as required) CLOSED / ADJUSTED  
 MIXTURES.....ENRICHENED  
 ALTIMETER ..... SET / VERIFIED  
 AUTOPILOT ..... OFF  
 LIGHTS ..... (as required) ON  
 SEATBELTS / SHOULDER HARNESSSES ..... ON  
 APPROACH BRIEF..... COMPLETE

**BEFORE LANDING / GEAR DOWN**

MIXTURES.....FULL RICH  
 PROPS..... 2500 RPM  
 LANDING GEAR (3 green, no red, 1 in mirror)..... DOWN  
 FUEL PUMPS .....ON

FLAPS..... (as required) SET  
**GUMP CHECK (SOP)..... COMPLETE**

## AFTER LANDING

|                   |                       |
|-------------------|-----------------------|
| TRIM (2).....     | TAKEOFF               |
| FLAPS .....       | UP / CONFIRMED        |
| COWL FLAPS .....  | OPEN                  |
| MIXTURE.....      | LEANED FOR TAXI       |
| FUEL PUMPS.....   | OFF                   |
| LIGHTS .....      | (as required) OFF     |
| TRANSPONDER ..... | (as required) STANDBY |

## SHUTDOWN

|                          |               |
|--------------------------|---------------|
| PARKING BRAKE.....       | ON            |
| AVIONICS SWITCH.....     | OFF           |
| THROTTLES.....           | 1,000 RPM     |
| MAGNETO GROUNDING .....  | CHECKED       |
| MIXTURES.....            | IDLE CUT- OFF |
| THROTTLES.....           | IDLE          |
| MAGNETOS (4).....        | OFF           |
| ELECTRICAL SWITCHES..... | OFF           |
| MASTER SWITCH.....       | OFF           |
| ALTERNATORS (2) .....    | OFF           |
| CONTROL LOCK.....        | INSTALLED     |
| PARKING BRAKE .....      | OFF           |

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*AIRCRAFT SECURE (SOP) ..... COMPLETE*