

## C-GWDE CHECKLIST PIPER PA-28-180



### OPERATING NOTES

1. No Acrobatics or Spins approved.
2. Flaps have 4-notch positions: UP, 10°, 25°, 40°.
3. **CAUTION:** Stall warning is Inoperative with MASTER SW OFF.
4. **CAUTION: FUEL PUMP** switch must be **ON** for Take Off and Landing.
5. **CAUTION:** Electrical System is 12 VDC; Avionic System is 28 VDC. Ensure checklist is followed and CNVTR MASTER is in the correct position when starting and shutting down this aircraft or damage may result to Avionics.
6. **CAUTION:** When Visible Moisture is present and outside temperature is less than +5°C, **PITOT HEAT** should be **ON**.
7. **WARNING: DO NOT** Takeoff with snow, ice or frost on wing and tail surfaces.

### DISCLAIMER

This Checklist for reference only.  
Information within this Checklist is superseded by the applicable POH, Tech data, STCs and other aircraft-specific documents.

Use this Checklist at your own Risk.

## C-GWDE CHECKLIST PIPER PA-28-180

### CROSS-COUNTRY FLY AWAY KIT

JOURNEY LOG BINDER  
FLIGHT PUBS/MAPS  
FUEL CUP  
ENGINE OIL – 2 QUARTS  
OIL FUNNEL  
TOW BAR  
FRONT ENGINE COVERS  
METAL CHOCKS

### PASSENGER BRIEFING

1. FRONT SEAT OPERATION SEATBELT USE
2. OPERATON OF DOORS
3. EMERGENCY EXIT PROCEDURE – ALWAYS TOWARD BACK OF AIRCRAFT
4. SICK BAGS LOCATION – BEHIND FRONT RIGHT SEAT
5. NO SMOKING/OTHER
6. FRONT RIGHT SEAT PAX – CLEAR OF CONTROLS AND RUDDER PEDALS
7. AIR VENTS & CABIN HEAT – LOCATION & OPERATION
8. FIRST AID KIT LOCATION
9. FIRE EXTINGUISHER LOCATION & USE
10. ELT “ON” SWITCH – FOLLOWING CRASH LANDING OR DITCHING
11. HEADSET & INTERCOM USE
12. LOOSE ITEMS SECURED FOR T/O AND LANDING

QUESTIONS?

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## SPEEDS (MPH)

Vso.....57  
 Vs1.....67  
 Vr.....50-60  
 Vx (Max Angle) .....74  
 Vy (Max Rate) .....85  
 Vfe (Max Flap) .....115  
 Enroute Climb.....100  
 Vno.....140  
 Vne.....171  
 Va (2400#).....129  
 Va (1950#).....123  
 Best Glide.....85  
 Max. Demon. X-Wind.....15  
 Approach (Flaps DN).....80  
 Short Field Approach.....70

## SPECS & LIMITS

G Limits ..... +3.8  
 Neg G ..... No Inverted  
 Maneuvers Approved

Max Gross Weight.....2400 lbs  
 Empty Weight with 50 USG  
 ..... 1705 lbs  
 Max weight Pax + Baggage  
 ..... 695 lbs  
 Max Baggage .....150 lbs

Fuel Capacity .....50 USG  
 Fuel Consumption.....10 GPH  
 at 75% power  
 Tires (all) .....24 PSI

## PREFLIGHT

Weight & Balance..COMPLETE  
 POH .....IN COCKPIT  
 Fuel Level.....CHECK (L & R)  
 Hobbs.....RECORD  
 Master SW .....OFF  
 Pitot Heat .....OFF  
 Fuel Pump .....OFF  
 NAV Lights .....OFF  
 Landing Light .....OFF  
 Beacon Light .....OFF  
 Ignition.....OFF  
 Carb Heat .....FULL IN  
 Throttle .....IDLE  
 Fuel Mixture .....FULL LEAN  
 Cabin Heat & Defrost ..... IN  
 CNVTR Master.....OFF  
 Radios/NAV Aids .....OFF  
 Transponder .....OFF  
 Overhead Console .....ALL OFF  
 Master.....ON  
 Fuel Quantity.....CHECK  
 Stall Warning Light.....CHECK  
 Exterior Lights .....CHECK  
 Master.....OFF  
 Flight Controls.....FREE  
 Flaps.....EXTEND

## EXTERIOR INSPECTION

### RIGHT WING

Flap & Aileron.....CHECK

# C-GWDE CHECKLIST PIPER PA-28-180

Tip/Leading Edge.....CHECK  
 Tie Down.....REMOVE  
 Fuel Quantity.....CHECK  
 Fuel Tank Vent.....OPEN  
 Fuel Sump.....DRAIN  
 Strut/Tire/Brake.....CHECK

### NOSE

Windshield/Cowling....CHECK  
 Oil Quantity .....6-7 QTS  
 Fuel Strainer .....DRAIN  
 Prop/Spinner.....CHECK  
 Air Inlet.....CHECK  
 Alternator Belt.....CHECK  
 Nose Strut/Tire.....CHECK  
 Fuel Sump.....CHECK

### LEFT WING

Strut/Tire/Brake.....CHECK  
 Fuel Sump.....DRAIN  
 Fuel Quantity.....CHECK  
 Tie Down.....REMOVE  
 Fuel Tank Vent.....OPEN  
 Pitot / Static Mast.....CHECK  
 Leading Edge/Tip.....CHECK  
 Aileron & Flap.....CHECK

### AFT FUSELAGE

Fuselage.....CHECK  
 Antennas.....CHECK  
 Stabilator.....CHECK  
 Vertical Stabilizer.....CHECK  
 Rudder.....CHECK

Tie Down.....REMOVE  
 Baggage Door .....SECURE

## ENGINE START

Door.....CLOSED & LATCHED  
 Seatbelts.....SECURE  
 CNVTR Master..... OFF  
 Circuit breakers.....CHECK IN  
 Beacon.....ON  
 Carb Heat .....COLD / OFF  
 Fuel Selector....DESIRED TANK  
 Brakes .....HOLD  
 Mixture .....RICH  
 Primer.....1 (warm) to 3 (cold)  
 Master Switch.....ON  
 Throttle .....¼ INCH OPEN  
 Fuel Pump .....ON  
 Prop Area .....CLEAR  
 Starter.....ENGAGE  
 Throttle .....800-1200 RPM  
 Oil Pressure .....CHECK  
 Mixture.....LEAN

## FLOODED START

Throttle.....FULL OPEN  
 Master.....ON  
 Fuel Pump.....OFF  
 Mixture.....CUTOFF  
 Starter.....ENGAGE  
 When engine fires,  
 Advance mixture and retard  
 throttle.

## C-GWDE CHECKLIST PIPER PA-28-180

### BEFORE TAXI CHECK

NAV lights .....AS REQUIRED  
CNVTR Master .....ON  
Radio/NAV Aids.....ON  
Transponder .....STBY  
ATIS .....OBTAIN  
Altimeter .....SET  
Attitude Indicator .....LEVEL  
Suction Gage ..... 4" to 6"  
  
Directional Gyro .....SET  
Ammeter .....CHARGING  
Brakes .....CHECK ON TAXI

### RUNUP CHECK

Fuel Selector....DESIRED TANK  
Oil Temperature.....GREEN  
Mixture.....RICH  
Brakes .....HOLD  
Throttle.....1800 RPM  
Magnetos.....CHECK  
(max drop 175 / diff 50)  
Engine Instruments.....GREEN  
Fuel Pressure.....CHECK  
Carb Heat.....CHECK  
Throttle.....800 RPM

### BEFORE TAKEOFF CHECK

Flight Controls.....FREE  
Flaps .....UP (HANDLE DOWN)  
Trims .....SET FOR TAKEOFF  
Mixture .....RICH  
Carb Heat .....OFF  
Fuel Selector....DESIRED TANK  
Fuel Pump .....ON  
Engine Gauges .....NORMAL  
Ammeter .....30-32 (approx.)  
Doors / Windows.....LOCKED  
NAV Aids .....SET FOR FLT  
Transponder .....ALT  
Landing Light .....ON  
Pitot Heat .....AS REQ

### TAKEOFF

Directional Gyro ....RWY HDG  
Throttle.....Full OPEN  
Engine Instrument.....CHECK  
Rotate.....60 MPH  
Climb.....85 MPH  
Enroute Climb .....100 MPH  
Time Up.....NOTE

### SHORT-FIELD TAKEOFF

Flaps.....25°  
Carburetor Heat.....OFF  
Brakes.....APPLY  
Throttle.....Full OPEN  
Engine Instruments.....CHECK

## C-GWDE CHECKLIST PIPER PA-28-180

Brakes.....RELEASE  
Rotate.....55-60 MPH  
Climb.....74 MPH  
until clear of obstacle  
Climb.....85 MPH  
Flaps.....RETRACT  
Enroute Climb .....100 MPH

### LEVEL OFF & CRUISE

Throttle.....SET  
Mixture.....SET  
Fuel Selector....DESIRED TANK  
Engine Gauges.....CHECK  
Ammeter .....30-32 (approx.)  
Heading Indicator.....CHECK  
Landing Light.....OFF  
Trim.....SET

### PRE-DESCENT

Fuel Selector....FULLEST TANK  
Fuel Pump .....ON  
Fuel Pressure .....VERIFY  
Engine Gauges .....NORMAL  
Ammeter .....30-32 (approx.)  
Carburetor Heat.....OFF/IN  
Power.....AS DESIRED  
Mixture.....ADJUST  
Altimeter.....SET  
Heading Indicator.....CHECK  
Pitot Heat .....AS REQ  
Landing Light .....ON  
Cabin Heat/Demister ..AS REQ  
Seat Belts .....SECURE

### APPROACH & LANDING

Approach(Flaps Up)....85 MPH  
Flaps .....AS DESIRED  
Airspeed...75 MPH(FLAPS DN)

### GO-AROUND

Throttle.....FULL OPEN  
Climb.....85 MPH  
Flaps.....25°

### AFTER LANDING

Flaps.....RETRACT  
Transponder.....STBY  
Pitot Heat .....OFF  
Fuel Pump.....OFF  
Fuel Pressure.....VERIFY  
Landing Light.....OFF  
Mixture.....LEAN (for taxi)  
Trims .....RESET FOR T/O  
Time Down .....NOTE

### SHUTDOWN

Throttle.....IDLE  
NAV Lights .....OFF  
Radios/NAV Aids .....OFF  
Transponder .....OFF  
CNVTR Master.....OFF  
Mixture.....CUTOFF  
Ignition.....OFF  
Master.....OFF  
Beacon.....OFF  
Hobbs.....RECORD  
Doors/Windows.....LOCKED  
Tie-Downs.....SECURE  
Flight Plan.....CLOSE

## C-GWDE CHECKLIST PIPER PA-28-180

### ENGINE FAILURE DURING TAKEOFF ROLL

Throttle .....IDLE  
Brakes .....APPLY  
Flaps .....RETRACT  
Mixture .....CUTOFF  
Ignition .....OFF  
Master SW .....OFF

### ENGINE FAILURE AFTER TAKEOFF (RESTART)

Airspeed .....80 MPH  
Fuel Selector OPPOSITE TANK  
Mixture .....FULL RICH  
Carb Heat .....ON

### ENGINE FAILURE DURING FLIGHT

Airspeed .....85 MPH  
Landing Site .....LOCATE  
Fuel Selector ..FULLEST TANK  
Fuel Pump .....ON  
Carb Heat .....ON  
Mixture .....FULL RICH  
Ignition .....L,R, BOTH  
Primer .....IN & LOCKED  
Engine Gauges .....CHECK

#### **IF POWER IS RESTORED:**

Carb Heat .....OFF  
Fuel Pump .....OFF

#### **IF POWER IS NOT RESTORED:**

Prepare for Forced Landing

### ENGINE FIRE IN FLIGHT

Fuel Selector .....OFF  
Throttle .....Closed  
Mixture .....CUTOFF  
Ignition .....OFF  
Fuel Pump .....OFF  
Heater/Defrost/Air .....OFF  
Airspeed .....INCREASE  
Forced Landing .....EXECUTE

### ENGINE FIRE DURING START

Cranking Starter ...CONTINUE  
**IF ENGINE STARTS:**  
Throttle .....1800 RPM  
Mixture .....CUTOFF  
Fuel Pump .....OFF  
Fuel Selector .....OFF  
Master SW .....OFF  
Ignition .....OFF  
Shut Down and Inspect

#### **IF ENGINE FAILS TO START:**

Cranking Motor ....CONTINUE  
Fire Extinguisher .....OBTAIN  
Master SW .....OFF  
Ignition .....OFF

ABANDON AIRCRAFT

IF FIRE CONTINUES

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### ELECTRICAL FIRE

Master SW .....OFF  
Vents .....OPEN  
Heat/Cabin Air .....OFF  
Fire Extinguisher ....ACTIVATE  
**IF FIRE IS OUT AND ELECTRICS  
ARE NECESSARY FOR FLIGHT:**  
Master SW .....ON  
Circuit Breakers .....CHECK  
Do Not Reset  
Radios .....OFF  
Radios .....ON  
One at a Time  
LAND AS SOON AS POSSIBLE

### FORCED LANDING

Seat Backs .....UPRIGHT  
Seatbelts .....SECURE  
Airspeed .....85 MPH  
Mixture .....CUTOFF  
Ignition .....OFF  
Fuel Selector .....OFF  
Master SW .....OFF  
Flaps .....AS REQ'D  
Doors .....UNLATCHED  
Touchdown .....TAIL LOW

### SPIN RECOVERY

Throttle .....IDLE  
Ailerons .....NEUTRAL  
Rudder .....FULL OPPOSITE  
DIRECTION OF SPIN  
Yoke .....FULL FORWARD  
Controls .....HOLD  
UNTIL ROTATION STOPS  
Recover Aircraft to level  
attitude.

### ALTERNATOR FAILURE

Non-Essential Electrics ....OFF  
5 & 60 Amp C/B .....CHECK  
RESET IF OPEN

#### **IF NEITHER C/B IS OPEN:**

Master SW .....OFF  
FOR 30 SECONDS  
Master SW .....ON

#### **IF AMMETER CONTINUES TO INDICATE NO OUTPUT:**

Non-Essential Electrics ....OFF  
Land as soon as Practicable

### ALTERNATOR GUAGE EXCESSIVE LOAD

Non-Essential Electrics ....OFF  
Land as soon as practicable