



**Normal Checklist Piper PA-28-180 HB-OZV**

**BEFORE ENGINE START**

- 1 Pre-flight inspection ..... COMPLETED
- 2 Doors ..... AS REQUIRED
- 3 Seat and seatbelts ..... ADJUSTED AND LOCKED
- 4 Avionics and electrical equipment ..... ALL OFF
- 5 Master switch ..... ON
- 6 Circuit breakers ..... ALL IN
- 7 Fuel quantity ..... CHECKED
- 8 Fuel selector ..... FULLEST TANK
- 9 Parking brakes ..... SET

**ENGINE START**

- 1 Rotating beacon ..... ON
- 2 Mixture ..... RICH
- 3 Fuel pump ..... ON, PRESSURE CHECKED
- 4 Carburetor heater ..... OFF
- 5 Priming ..... AS REQUIRED
- 6 Throttle ..... 1 cm OPEN
- 7 Propeller area ..... CLEAR
- 8 Ignition switch ..... OPERATE
- 9 Throttle ..... 1000 RPM
- 10 Oil pressure ..... CHECKED
- 11 Ammeter ..... CHECKED
- 12 Fuel pump ..... OFF, PRESSURE CHECKED
- 13 Avionics ..... ON, SET

**TAXI CHECK**

- 1 Brakes and steering ..... CHECKED
- 2 Gyro instruments ..... CHECKED

**RUN UP**

- 1 Oil temperature ..... GREEN SECTOR
- 2 Throttle ..... 1800 RPM
- 3 Magnetos ..... CHECKED (175/50)
- 4 Carburetor heater ..... CHECKED
- 5 Mixture ..... CHECKED
- 6 Gyro suction ..... GREEN SECTOR
- 7 Throttle ..... IDLE (MAX 700 RPM)
- 8 Throttle ..... 1200 RPM



**CHECK BEFORE DEPARTURE**

- 1 Flight controls ..... FREE AND EASY
  - 2 Primer..... LOCKED
  - 3 Mixture ..... AS REQUIRED
  - 4 Carburetor heater ..... OFF
  - 5 Flaps ..... SET FOR T/O
  - 6 Trims ..... SET FOR T/O
  - 7 Fuel quantity ..... CHECKED
  - 8 Fuel selector..... FULLEST TANK
  - 9 Fuel pump ..... ON, PRESSURE CHECKED
  - 10 Door ..... CLOSED & LATCHED
  - 11 Seat and seatbelts..... ADJUSTED AND LOCKED
  - 12 Flight instrument and avionics ..... SET & CHECKED
  - 13 Departure briefing..... COMPLETED
- 

**LINE UP CHECK**

- 1 Wind..... CHECKED
  - 2 Runway heading..... CHECKED
  - 3 Landing lights ..... ON
  - 4 Time ..... NOTE
- 

**CLIMB CHECK**

- 1 Flaps ..... UP
  - 2 Fuel pump ..... OFF, PRESSURE CHECKED
  - 3 Landing lights ..... AS REQUIRED
  - 4 Throttle ..... FULL POWER
  - 5 Mixture ..... AS REQUIRED
- 

**CRUISE CHECK**

- 1 Altimeter and gyro ..... SET, CHECKED
  - 2 Throttle ..... 2400-2500 RPM
  - 3 Mixture ..... AS REQUIRED
  - 4 Engine instruments..... CHECKED
- 

**CHECK FOR APPROACH**

- 1 Approach briefing ..... COMPLETED
  - 2 Altimeter and gyro ..... SET, CHECKED
  - 3 Fuel pump ..... ON, PRESSURE CHECKED
  - 4 Landing lights ..... ON
  - 5 Fuel quantity ..... CHECKED
  - 6 Fuel selector..... FULLEST TANK
  - 7 Mixture ..... AS REQUIRED
  - 8 Carburetor heater ..... AS REQUIRED
- 

**FINAL CHECK**

- 1 Flaps ..... AS REQUIRED
- 2 Carburetor heater ..... OFF



**AFTER LANDING CHECK**

- 1 Flaps .....UP
  - 2 Fuel pump ..... OFF
  - 3 Landing lights ..... AS REQUIRED
  - 4 Transponder ..... OFF
- 

**ENGINE SHUTDOWN**

- 1 Throttle ..... 1200 RPM
  - 2 Electrical equipment (except BCN) ..... ALL OFF
  - 3 Avionics ..... 121.5 MHz, THAN OFF
  - 4 Mixture ..... **CUT OFF**
  - 5 Magnetos ..... **OFF, KEY OUT**
  - 6 Rotating beacon ..... OFF
  - 7 Master switch ..... **OFF**
- 

**Speeds**

Rotation speed	Vr	65 mph	56 kt
Best angle of climb speed	Vx	74 mph	64 kt
Best rate of climb speed	Vy	85 mph	74 kt
Maneuvering speed	Va	129 mph	112 kt
Max speed with extended flaps	Vfe	115 mph	100 kt
Best glide speed	V <sub>glide</sub>	85 mph	74 kt
Stall speed at 0° flaps	Vs	63 mph	55 kt
Stall speed at full flaps	Vs <sub>1</sub>	54 mph	47 kt
Maximum structural cruise speed		140 mph	121 kt
Speed of never exceed	Vne	171 mph	148 kt
Crosswind speed		20 mph	17 kt

**Weights and flight load factors**

MTOW	2400 lbs	1089 Kg
Normal	+ 3.8g	
Utility	+ 4.4g	

**Fuel**

Total capacity	50 USG
Usable fuel	48 USG
Fuel flow	12 USG/h



Procedures in the circuit

