

# NORMAL PROCEDURES



PA28-161

## Before Starting Engine

1. Preflight Inspection----- COMPLETE
2. Documents (Incl IFR)----- CHECK
3. Fuel Quantity ----- ADEQUATE
4. Seats and Belts ----- ADJUST AND LOCK
5. Radio Master----- OFF
6. Electrical Equipment----- OFF
7. Circuit Breakers ----- CHECK IN
8. Brakes ----- TEST AND SET

## Starting Engine

1. Magneto Key----- IN (mags off)
2. Fuel Selector----- DESIRED TANK
3. Throttle ----- OPEN 1/2 INCH
4. Mixture----- RICH
5. Carb Heat ----- OFF
6. Master Switch ----- ON
7. Annunciator Light----- 3 ON
8. Beacon ----- ON
9. Fuel Pump ----- ON
10. Prime----- AS REQUIRED AND LOCKED
11. Propeller Area ----- CLEAR
12. Ignition Switch ----- START
13. Throttle ----- 1,000 RPM
14. Oil Pressure----- CHECK
15. Fuel Pump ----- OFF
16. Electric Trim ----- ON
17. Radio Master----- ON
18. Lights ----- AS NEEDED
19. Parking Brake ----- OFF

## Before takeoff

1. (IFR Taxi Checks ----- COMPLETE)
2. Flight Controls ----- FREE AND CORRECT
3. Flight Instruments ----- SET
4. Radios ----- SET (RNAV OFF)
5. Flaps ----- UP (or AS DESIRED)
6. Elevator Trim ----- SET FOR TAKEOFF
7. Mixture----- RICH
8. Throttle ----- 2,000 RPM
  - a) Magnetos (175 max drop ----- CHECK
  - b) Carb Heat----- CHECK (OFF)
  - c) Engine Instruments ----- CHECK
  - d) Vacuum Gauge (5" ±1)----- CHECK
  - e) Ammeter ----- CHECK
  - f) Throttle ----- 1,000 RPM
9. Annunciator Lights ----- OFF
10. Auto Pilot ----- OFF
11. Door Latches ----- BOTH LATCHED
12. Storm Window ----- CLOSED
13. Fuel Pump ----- ON
14. Transponder ----- ALT
15. Lights and Strobes ----- AS DESIRED
16. Parking Brake ----- OFF

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## Normal Takeoff

1. Flaps ----- UP
2. Rotate----- 55 KIAS
3. Initial Climb Speed ----- 80 KIAS

## Soft Field Takeoff

1. Flaps ----- 25°
2. Throttle----- FULL OPEN
3. Stabilator ----- AFT (Hold Nose Up)
4. Climb----- 80 KIAS

## Short Field Takeoff

1. Flaps ----- 25°
2. Brakes ----- APPLY
3. Throttle----- FULL OPEN
4. Rotate----- 52 KIAS
5. Initial Climb ----- 52 KIAS
6. After Obstacle----- 80 KIAS, FLAPS UP

## Cruise

1. Accelerate to Cruise Speed----- TRIM
2. Throttle----- 2,300 - 2,500 RPM
3. Mixture ----- LEAN
4. Fuel Pump----- OFF

## Normal Approach

1. Seats and Belts ----- ADJUST AND LOCK
2. Fuel Pump----- ON
3. Fuel----- ON DESIRED TANK
4. Mixture ----- RICH
5. Carb Heat ----- ONLY IF NEEDED
6. Flaps ----- AS DESIRED
7. Airspeed ----- 65 KIAS (with Flaps)

## Short/Soft Field landing

6. Flaps ----- 40°
7. Airspeed ----- 63 KIAS (min. spd. for soft)

## Shutdown

1. Throttle----- 1,000 RPM
2. Trim ----- RESET FOR TAKEOFF
3. Radio Master ----- OFF
4. Electrical Equipment----- OFF
5. Mixture ----- OFF
6. Ignition ----- OFF (AND REMOVE KEY)
7. Master Switch ----- OFF
8. Flaps ----- RETRACT (for deplaning)
9. Aircraft Exterior ----- SECURE

NOTE: Abnormal and Emergency Procedures may be referenced in the Pilot's Operating Handbook. Critical items should be memorized.

WCFC Phone Number	(919) 776-2003
V <sub>x</sub> = 63 KIAS	V <sub>y</sub> = 79 KIAS
BEST GLIDE SPEED ----- 73 KIAS	
TURBULENCE PENETRATION (V <sub>a</sub> )----- 111 KIAS	