

PREFLIGHT / WALK-AROUND

Cockpit

| | |
|-------------------|-------------|
| Book/Hobbs | CHECK |
| Times | RECORD |
| Documents | AROW |
| Control Lock | REMOVE |
| Master | ON |
| Fuel Gage | CHECK |
| Ignition/Mags | OFF |
| Avionics | OFF |
| Circuit Breakers | CHECK |
| Lights | ON |
| Beacon | ON |
| Throttle | OUT |
| Mixture | CUT-OFF |
| Flaps | DOWN |
| Trim | NEUTRAL |
| Fuel Selector | BOTH |
| Fire Extinguisher | CHECK |
| Parking Brake | OFF |
| Lights | WALK AROUND |
| Master | OFF |
| Lights | OFF |

Left Wing

| | |
|-----------------------|--------------|
| Main Gear Wheel | CHECK |
| Main Gear Brake | CHECK |
| Fuel Sump | DRAIN |
| Flap | CHECK |
| Aileron | CHECK |
| Static Wick | CHECK |
| Wing Tip | CHECK |
| Lights | CHECK |
| Tie Down | REMOVE |
| Fuel Vent | CHECK |
| Stall Warning Opening | CHECK |
| Pitot | REMOVE/CHECK |
| Vent | CHECK |
| Fuel Level | CHECK |
| Fuel Cap | ON |

Nose

| | |
|-----------------|----------------|
| Static Opening | CHECK |
| Windscreen | CHECK |
| Cowling | CHECK |
| Nose Wheel | CHECK |
| Strut | CHECK |
| Spinner | CHECK |
| Propeller | CHECK |
| Alternator Belt | CHECK |
| Air Filter | CHECK |
| Oil | CHECK (5-6 Qt) |
| Fuel Strainer | DRAIN |
| Access Cover | CLOSED |

Right Wing

| | |
|-----------------|--------|
| Fuel Level | CHECK |
| Fuel Cap | ON |
| Vent | CHECK |
| Tie Down | REMOVE |
| Lights | CHECK |
| Static Wick | CHECK |
| Aileron | CHECK |
| Flap | CHECK |
| Main Gear Wheel | CHECK |
| Main Gear Brake | CHECK |
| Fuel Sump | DRAIN |

Empennage

| | |
|------------|--------|
| Antenna | CHECK |
| Elevator | CHECK |
| Trim Tab | CHECK |
| Tie Down | REMOVE |
| Rudder | CHECK |
| Elevator | CHECK |
| Cargo Door | CLOSED |

BEFORE STARTING

| | |
|-------------------------|-----------------|
| Passenger Brief | COMPLETE |
| Seats | ADJUSTED |
| Seat Belts | SECURED |
| Door | CLOSED / LOCKED |
| Fuel | BOTH |
| Trim | NEUTRAL |
| Alternate Static Source | OFF |
| Beacon Switch | ON |
| Circuit Breakers | CHECK |
| Avionics | OFF |

STARTING

| | |
|------------------|-----------------------|
| Master | ON |
| Alternator | ON |
| Mixture | RICH |
| Propeller / Area | CLEAR |
| Throttle | IN 1/4" |
| Prime | FUEL PUMP ON then OFF |
| Brakes | HOLD |
| Ignition / Mags | START |
| Throttle | 1000 RPM |
| Oil Pressure | GREEN |
| Ammeter | CHARGING |
| Avionics | ON |

WARM-UP

| | |
|--------------------|------------|
| Throttle | 1000 RPM |
| Mixture | LEAN 1" |
| Flaps | UP |
| GPS | SET |
| Radios | SET |
| Transponder | SET to ALT |
| Squawk | 1200 |
| Weather ASOS/ATIS | CHECK |
| Flight Instruments | SET |

TAXIING

| | |
|-------------------|-----------------|
| Take Off Briefing | CHECK |
| Taxi Area | CLEAR |
| Brakes | CHECK |
| Attitude | ERECT |
| Turn Coord | BANKS PROPERLY |
| VSI | NOTE 0 POSITION |
| Lights | AS REQUIRED |
| Taxi Clearance | OBTAIN |
| Flight Controls | POSITION |

GROUND CHECK / RUN-UP

| | |
|--------------------|-----------------|
| Brakes | HOLD |
| Doors / Windows | CHECK |
| Mixture | RICH |
| Throttle | 1800 RPM |
| Magnetos | 125 max/50 diff |
| Engine Gages | CHECK |
| Suction | CHECK |
| Ammeter | CHECK |
| Idle Throttle | CHECK |
| Throttle | 1000 RPM |
| Lights | AS REQUIRED |
| Pitot Heat | AS REQUIRED |
| Flight Controls | FREE |
| Approach | CLEAR/CIRCLE |
| Take-Off Clearance | OBTAIN |



NORMAL TAKE OFF

| | |
|--------------|--|
| Flaps | UP |
| Throttle | FULL |
| Engine Gages | GREEN |
| Air Speed | ALIVE |
| Rotate | 55 Kts |
| Climb | V _x = 59 Kts V _y = 73 Kts |

CRUISE

| | |
|-------------|------------------|
| Lights | AS REQUIRED |
| Power | SET |
| Trim | SET |
| Mixture | LEAN above 3000' |
| Flight Plan | ACTIVATE |

DESCENT

| | |
|-------------|-------------|
| Mixture | AS REQUIRED |
| Airspeed | AS REQUIRED |
| Lights | AS REQUIRED |
| Flight Plan | CLOSE |

APPROACH and LANDING

| | |
|--------------|-------------|
| <i>GUMPS</i> | |
| Fuel | BOTH |
| Mixture | RICH |
| Lights | ON |
| Seatbelts | CHECK |
| Flaps | AS REQUIRED |
| Airspeed | 60 Kts |

CLEAR OF RUNWAY

| | |
|----------|----------|
| Radios | ANNOUNCE |
| Flaps | UP |
| Throttle | 1000 RPM |
| Mixture | LEAN 1" |
| Lights | OFF |
| Strobes | OFF |

SHUTDOWN

| | |
|------------------|-------------|
| Avionics | OFF |
| Mixture | IDLE CUTOFF |
| Ignition/Mags | OFF |
| Master | OFF |
| Control Lock | INSTALL |
| Times | RECORD |
| Pitot Tube | COVER |
| Cowl Plugs | INSTALL |
| Tie Downs/Chalks | INSTALL |



FFC 240-529-5500
FDK FBO (Fuel) 301-662-8156

MRFC 410-574-3897
Martin State FBO 410-682-8810
KMTN UNICOM 122.950

ENGINE FAILURE

| | |
|-------------------|--------|
| <i>ABC</i> | |
| Airspeed | 65 Kts |
| Best Landing Area | SELECT |
| Checklist | |
| Fuel | BOTH |
| Mixture | RICH |
| Throttle | FULL |
| Ignition/Mags | BOTH |
| Master/Alternator | ON |

If no restart

| | |
|---------------|--------------|
| Transponder | 7700 |
| ELT | ON |
| Radio | MAYDAY |
| Fuel | OFF |
| Mixture | IDLE CUTOFF |
| Throttle | OUT |
| Ignition/Mags | OFF |
| Master | OFF ON FINAL |

FIRE DURING START

Cranking CONTINUE

If Engine Starts

| | |
|----------|----------|
| Throttle | 1700 RPM |
| Engine | SHUTDOWN |

If Engine Fails to Start

| | |
|-------------------|-------------|
| Cranking | CONTINUE |
| Fuel | OFF |
| Throttle | OUT |
| Mixture | IDLE CUTOFF |
| Fire Extinguisher | REMOVE |
| Ignition/Mags | OFF |
| Master | OFF |
| Fire Extinguisher | USE |

ICING

| | |
|---|------|
| <i>Turn back or change altitude to area of warmer temperature</i> | |
| Pitot Heat | ON |
| Cabin Heat | ON |
| Defroster | ON |
| Throttle | FULL |

SPIN RECOVERY

| | |
|----------|-------------------------|
| Throttle | IDLE |
| Ailerons | NEUTRAL |
| Rudder | Full Opposite Rotation |
| Yolk | FULL FORWARD |
| Rudder | NEUTRAL |
| Yolk | RECOVER |
| Throttle | FULL to regain attitude |

V SPEEDS

| | |
|------------------|---|
| V _{ne} | 163 Kts |
| V _{no} | 129 Kts |
| V _r | 55 Kts |
| V _x | 57 Kts |
| V _y | 79 Kts |
| Cruise Climb | 85-90 Kts |
| V _a | 99 Kts @ 2450 lbs 92 Kts @ 2000 lbs 82 Kts @ 1600 lbs |
| V _{so} | 33 Kts |
| V _{s1} | 44 Kts |
| V _{fe} | 10° 110 Kts 10° – 30° 85 Kts |
| V _g | 65 Kts |
| Max X-Wind | 15 Kts |
| Max Gross Weight | 2450 lbs |