

**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  
 Block Heater REMOVE  
 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  
 Carb Heat COLD  
 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 3-6 Pumps & LOCK  
 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 1700 RPM  
 Magnetos 125 max/50 diff  
 Carb Heat CHECK  
 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 <sub>x</sub> = 59 Kts V <sub>y</sub> = 73 Kts

## CRUISE

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

## DESCENT

Mixture	AS REQUIRED
Carb Heat	AS REQUIRED
Airspeed	AS REQUIRED
Lights	AS REQUIRED
Flight Plan	CLOSE

## APPROACH and LANDING

*GUMPS*

Fuel	BOTH
Mixture	RICH
Carb Heat	ON
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

Airspeed	65 Kts
Best Landing Area	SELECT
Checklist	
Fuel	BOTH
Mixture	RICH
Throttle	FULL
Ignition/Mags	BOTH
Master/Alternator	ON
Primer	IN & LOCKED

### *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
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### *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

*Turn back or change altitude to area of warmer temperature*

Pitot Heat	ON
Cabin Heat	ON
Defroster	ON
Throttle	FULL
Carb Heat	AS REQUIRED

## 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 <sub>r</sub>	55 Kts
V <sub>x</sub>	59 Kts
V <sub>y</sub>	73 Kts
Cruise Climb	75-85 Kts
V <sub>a</sub>	97 Kts @ 2300 lbs 89 Kts @ 1950 lbs 80 Kts @ 1600 lbs
V <sub>no</sub>	126 Kts
V <sub>ne</sub>	160 Kts
V <sub>so</sub>	44 Kts
V <sub>s1</sub>	50 Kts
Max X-Wind	15 Kts