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	r 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 REMO	VE/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	

CHECK
ON
CHECK
REMOVE
CHECK
DRAIN

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

BEFORE STARTING

Passenger Br	ief (COMPLETE
Seats	1	ADJUSTED
Seat Belts		SECURED
Door	CLOSED	/ LOCKED
Fuel		BOTH
Trim		NEUTRAL
Alternate Sta	tic Source	OFF
Beacon Swite	ch	ON
Circuit Break	ers	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 Brid	efing	CHECK
Taxi Area		CLEAR
Brakes		CHECK
Attitude		ERECT
Turn Coord	BANKS P	ROPERLY
VSI	NOTE 0	POSITION
Lights	AS R	EQUIRED
Taxi Clearan	ce	OBTAIN
Flight Contro	ols	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 Clearan	ce OBTAIN



NORMAL TAKE OFF

 $Flaps & UP \\ Throttle & FULL \\ Engine Gages & GREEN \\ Air Speed & ALIVE \\ Rotate & 55 Kts \\ Climb & Vx = 59 Kts \\ Vy = 73 Kts$

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

GUMPS

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 IDLE CUTOFF** Mixture Ignition/Mags **OFF OFF** Master 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

ABC68 Kts Airspeed Best Landing Area SELECT Checklist Fuel BOTH Mixture **RICH** Throttle **FULL** BOTH Ignition/Mags 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 **IDLE CUTOFF** Mixture 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

SPIN RECOVERY

Throttle
Ailerons
Rudder
Yolk
Rudder
Yolk
Rudder
Yolk
Throttle
FULL to regain attitude

V SPEEDS

Vne 163 Kts Vno 129 Kts Vr 55 Kts Vx 57 Kts Vy 79 Kts Cruise Climb 85-90 Kts Va 105 Kts @ 2550 lbs 98 Kts @ 2200 lbs 90 Kts @ 1900 lbs Vso 40 Kts Vs1 48 Kts Vfe 10° 110 Kts $10^{\circ} - 30^{\circ}$ 85 Kts Vg 68 Kts Max X-Wind 15 Kts Max Gross Weight 2550 lbs