

**ENGINE START**

Alternate Air	CLOSED
Propeller	FORWARD
Master Switch	ON
Throttles	FULL
Mixture	RICH
Fuel Pomp	ON (3s)
Throttles	½ IN
Mixture	CUT-OFF
Brakes	HOLD
Alternator	ON
Propeller Area	CLEAR
Ignition Switch	START
Mixture	RICH
Throttle	1000
Oil Pressure.....	GREEN
Ammeter.....	CHECK

FLOODED START

Magneto Switches	ON
Throttles	OPEN
Mixture	IDLE
Fuel Pump	OFF
Starter*	ENGAGE

When engine fires, retard throttle and advance mixture.

***Cranking periods should be limited to 30 SECONDS with a 2 MINUTE INTERVAL.**

TAXIING

Parking Brake	RELEASE
Brakes	TEST
Instruments	CHECK
Taxi lights	ON

WARM UP & GROUND CHECK

Brakes.....	HOLD
Door/Windows	LOCK
Fuel Selector	FULLEST TANK
Mixture	RICH
Throttle	2000
Magnetos	CHECK
Propeller	EXERCISE
Alternate Air	CHECK
Ammeter.....	CHECK
Engine Instruments.....	CHECK
Throttle	IDLE
Throttle	1000
Flight Controls.....	CHECK
Lights/Pitot Heat.....	AS REQUIRED
Instruments	CHECK/SET
COM/NAV/Lights/Transponder.	SET
Flaps/Trim.....	SET
Clearance	OBTAİN
Take Off Briefing	COMPLETED

LINING UP

Parking Brake	OFF
Fuel Pumps.....	ON
Transponder	ON/ALT
Strobe Lights.....	ON
Landing Lights.....	AS REQUIRED

ROLLING

Power (Take OFF)	SET
Man. Press./RPM/Fuel Flow.....	CHECK
Speed.....	RISING
Rotate	60 KTS
Climb	80/90 KTS

AFTER TAKEOFF

Gear (Vlo 107 KTS)	POS. CLIMB/UP
Vy.....	78/90 KTS
Power (Climb).....	SET (25" 2500)
Flaps (Vfe 103 KTS).....	RETRACT
Landing Lights.....	OFF
Fuel Pumps.....	OFF
Mixture.....	RICH
Engine Instruments	CHECK

SHORT & SOFT FIELD TAKEOFF

Flaps	SET FOR T/O
Brakes	SET
Power	MAXIMUM
Instruments	CHECK
Vx.....	72/78 KTS
Landing Gear	RETRACT
Vy (clear of obstacle).....	78/90 KTS
Flaps	RETRACT

CLIMB

Throttles/Props	SET CLIMB
Enroute Climb.....	90 KTS

CRUISE

Throttles-Props.....	SET/TABLE
Mixture.....	ADJUST
Tanks	AS NEEDED
Instruments	AS NEEDED

STALL SPEED TABLE (CAS)		
Angle of Bank	Gear & Flaps Up	Gear & Flaps Down
0°	60	55
Best gliding speed 79 KTS		

V SPEEDS (KTS)	Vx	72/78	Vfe	103	Vne	183
	Vy	78/90	Vlo	107	Crosswind	17

**APPROACH/LANDING**

ATIS/AWOS/ASOS .....	..... OBTAIN
Brief/Seat Belts .....	..... CHECK
Mixture.....	..... RICH
Props .....	..... FORWARD
Fuel Selector.....	..... FULLEST
Fuel Pumps.....	..... TANK
Landing Lights.....	..... AS REQUIRED
Gear (Vlo 107 KTS) .....	..... 3 GREEN
Flaps (Vfe 103 KTS).....	..... SET
Final Approach .....	..... 80 KTS

GO AROUND

Power .....	..... FULL
Gear (Positive Climb) .....	..... UP
Flaps (safe altitude).....	..... RETRACT
Vy .....	..... 78/90 KTS

MANUAL GEAR EXTENSION

Master/Gear Circuit Breakers .....	..... IN
Master.....	..... ON
Navigation Lights.....	..... OFF Day
Landing lights .....	..... CHECK
Airspeed .....	..... < 87 KTS
Emergency Gear Extension Lever ..	..... DOWN
Landing Gear Lights.....	..... 3 GREEN

AFTER LANDING

Flaps .....	..... RETRACT
Fuel Pump .....	..... OFF
Pitot Heat .....	..... OFF

AFTER VACATE RUNWAY

Strobe/Landing Lights .....	..... OFF
Transponder.....	..... STBY

COMPLETE STOP

Radio/Elec. Equip. .....	..... OFF
Avionics Master Switch.....	..... OFF
Throttle .....	..... 1000
Mixture.....	..... IDLE/CUT-OFF
Ignition Switch/Magneton.....	..... OFF
Alternator.....	..... OFF
Master Switch .....	..... OFF
Parking Brake .....	..... ON
Chocks/Chains/Papers .....	..... COMPLETE

CLOSE FLIGHT PLAN**LOST COM**

Check: Freq., Volume, Squelch, Phones	
Transponder.....	..... 7600
Pattern .....	..... Enter/Lights

ENGINE FAILURES**DURING TAKE OFF OR AFTER LIFT OFF**

During Run .....	..... STOP
After Lift Off With Adequate Landing Distance .....	..... LAND

DURING CLIMB AFTER TAKE OFF

Vy .....	..... 78 KTS
Landing Gear (clear of obstacle) .....	..... UP

IF ALTITUDE APPROPRIATE FOR REIGNITION ENGINE

Fuel selector .....	..... TANK WITH FUEL
Fuel pump .....	..... CHECK

Mixture .....	..... RICH
Auxiliary air inlet .....	..... OPEN

IF POSSIBLE RETURN TO AIRPORT FOR LANDING**DURING CRUISE FLIGHT****LOW ALTITUDE**

Speed .....	..... 79 KTS
Flaps .....	..... AS REQUIRED
Throttle .....	..... CLOSE
Mixture .....	..... CUT-OFF-IDLE
Ignition .....	..... OFF
Master switch .....	..... OFF
Alternator .....	..... OFF
Fuel selector .....	..... CLOSE
Seat belts .....	..... TIGHTEN
Touch down with lowest speed	

HIGH ALTITUDE

Fuel selector .....	..... FULLEST TANK
Fuel pump .....	..... ON
Mixture .....	..... RICH
Auxiliary air .....	..... OPEN
Engine instruments.....	..... CHECK

IF NO FUEL FLOW INDICATING CHECK FUEL SELECTOR IF APPROPRIATE**AFTER GAIN POWER**

Auxiliary air inlet CLOSE
Fuel pump OFF

EMERGENCY LANING

Balance for 79 KTS
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Find appropriate terrain**Make spiral approach****1000 ft over terrain on downwind position for normal approach****If field can be achieved reduce speed to 72 KTS**

Landing gear .....	..... DOWN
Flaps .....	..... AS REQUIRED
Throttle .....	..... CLOSE
Mixture .....	..... CUT-OFF-IDLE
Ignition .....	..... OFF
Master switch .....	..... OFF
Alternator .....	..... OFF
Fuel selector .....	..... CLOSE
Seat belts .....	..... TIGHTEN

ATTENTION

After Master Switch OFF landing gear cannot be UP