

NORMAL PROCEDURES

PREFLIGHT

Aircraft Documents ON BOARD
Fire Extinguisher.....CHARGED & SECURE
Tie Downs REMOVED / ON-BOARD
Flight Control Lock.....REMOVE
Seats.....ADJUSTED & LOCKED
Parking Brake ON
Magnetos.....OFF
Avionics Master Switch & Electrics OFF
BAT Master Switch.....ON
Fuel Quantity.....CHECK
Flaps.....LDG
Warning Lights TEST
Lights, Pitot Heat, Stall warning.....CHECK
BAT Master Switch.....OFF

EXTERIOR INSPECTION

LEFT FUSELAGE SIDE

Baggage STOWED & CLOSED
Static Port.....CHECK
Antennas.....VISUAL INSPECTION

TAIL

Stabilizers and Control Surfaces CHECK

RIGHT FUSELAGE SIDE

Static Port.....CHECK

RIGHT WING

Aileron, Wing Flap.....VISUAL CHECK
Lights.....VISUAL CHECK
Right Fuel Tank.....VISUAL CHECK
Right Fuel Drain.....DRAIN
Right Main Landing Gear.....CHECK

NOSE

Oil.....CHECK LEVEL (6-8 QUARTS)
Cowling.....VISUAL INSPECTION
Air Intakes.....CLEAR
Propeller.....CLEARANCE MIN 25 CM
Propeller Blades.....CHECK
Spinner.....VISUAL INSPECTION
Nose Gear.....CHECK
Exhaust Pipe.....CHECK
Filter Drain.....DRAIN

LEFT WING

Left Main Landing Gear.....CHECK
Left Fuel Drain.....DRAIN
Left Tank.....VISUAL CHECK
Pitot Probe.....CLEAN, HOLE - OPEN
Lights.....VISUAL CHECK
Aileron, Wing Flap.....VISUAL CHECK

BEFORE STARTING ENGINE

Parking Brake.....ON
Brake Pressure.....CHECK
Seatbelts.....FASTENED & ADJUSTED
Flight Controls.....FREE & CORRECT
Doors.....CLOSED & SECURE
Circuit Breakers.....CHECK
Fuel Valve.....LOWEST TANK
Throttle.....FREE/IDLE
Propeller.....FULL FORWARD
Carb Heat.....OFF
BAT Master Switch ON
Avionics Master Switch & Radio ON
ATIS/ATC Clearance RECEIVED

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Altimeters.....SET QNH
Avionics Master Switch & Radio OFF

ENGINE START

Strobe/Position Lights ON
Throttle.....IDLE
Propeller.....FULL FORWARD
Mixture.....FULL RICH
Brakes.....HOLD
Fuel Pump.....ON
Throttle.....INJECTION, THEN IDLE ¼ INCH
Propeller Area.....CLEAR
Starter.....ENGAGE (MAX 10 SEC)
Throttle.....1000 - 1200 RPM
Oil Pressure.....GREEN
Fuel Pump.....OFF
Generator ON
Avionics Master Switch ON
Engine instruments.....CHECK

FLOODED START

Strobe/Position Lights ON
Mixture.....CUT OFF
Brakes.....HOLD
Fuel Pump.....OFF
Throttle.....FULL OPEN
Propeller Area.....CLEAR
Starter.....ENGAGE (MAX 10 SEC)

RESUME TO ENGINE START (NO INJECTION!)

AFTER STARTING ENGINE

Electrical Power GEN/BAT 24V CHECK
Cabin Heat and Defrost AS REQUIRED
Flaps.....CHECK/ CRUISE
Turn Indicator.....ON
Transponder.....STBY
Radios/NAV/GPS/FLARM.....SET
Engine Instruments.....CHECK
Trim Indicator T/O
Taxi Clearance.....RECEIVED

TAXI

Parking Brake/Taxi light.....OFF/ON
Flight Instruments/Brakes CHECK

RUN UP POSITION

Parking Brake/Taxi light.....ON/OFF
Fuel Selector.....FULLEST TANK
Carb Heat.....OFF
Propeller.....FULL FORWARD
Mixture.....FULL RICH
Oil Temp.....GREEN
Throttle.....2000 RPM
Oil Pressure.....GREEN
Alternator Load (Ammeter) GREEN
Suction.....GREEN
Mixture Lean Function.....EGT CHECK
Propeller.....CYCLE TWICE (MAX.DROP 500)
Magnetos CHECK (MAX.DROP 175, DIFF.50)
Carb Heat.....ON/OFF (MAP. DROP)
Engine instruments.....GREEN
Warning Lights.....NO ILLUMINATE
Throttle.....2700 RPM / IDLE THEN 1000 RPM
Take-Off Briefing COMPLETED
CHECK LISTS MARKED WITH THE THICK VERTICAL LINE ON THE LEFT SHOULD BE MEMORIZED

SP-IGK

BEFORE LINE UP

Trim Indicator.....T/O
Magnetos.....BOTH
Carb Heat OFF
Mixture.....FULL RICH
Flaps.....T/O
Fuel Pump.....ON

LINE UP

Parking Brake/Taxi/LDG Light.....OFF/ON
Transponder.....ALT
Gyro.....RWY HDG

TAKE-OFF

Take-off power.....SET
RPM.....2700
Engine Gauges CHECK
Rotation.....63 KIAS
Climb speed.....70 KIAS

CLIMB

Throttle.....FULL
Flaps.....CRUISE
Landing/Taxi Light.....OFF

CRUISE

Cruise Power/Propeller.....SET
Fuel Pump OFF
Altimeters.....SET/ CROSS CHECKED
Mixture.....ADJUST
Carb Heat.....AS REQUIRED
Fuel Tank.....30 MIN, MAX 13 GAL DIFF.

DESCENT

Mixture.....FULL RICH
Carb Heat ON
Fuel Pump.....ON
Throttle.....AS REQUIRED

FINAL

Mixture/Propeller.....FULL FORWARD
Carb Heat AS REQUIRED
Flaps.....LDG
Fuel Pump.....ON
Landing/Taxi Light.....ON
Approach Speed 73-78 KIAS

GO AROUND

Carb Heat.....OFF
Throttle.....FULL POWER
Flaps.....T/O
Airspeed.....73 KIAS

RUNWAY VACATED

Landing Light.....OFF
Fuel Pump.....OFF
Flaps.....CRUISE
Transponder.....STBY

SHUT DOWN POSITION

Parking Brake/Taxi light.....ON/OFF
Electrics & Avionics OFF
Avionics Master Switch OFF
Throttle.....IDLE
Magnetos Cut - Off TEST
Engine.....COOLING
Mixture.....CUT OFF
Strobe/Position Lights.....OFF
Magnetos OFF
GEN/BAT Master Switch.....OFF
Fuel Selector OFF

EMERGENCY PROCEDURES

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SP-IGK

ENGINE FAILURE DURING TAKE-OFF RUN

Throttle.....IDLE
Brakes.....AS REQUIRED
Flaps CRUISE
Mixture.....CUT OFF
Magnetos.....OFF
GEN/BAT Master Switch.....OFF

ENGINE FAILURE AFTER TAKE-OFF

INSUFFICIENT ENGINE POWER

Airspeed.....70 KIAS
Throttle.....FULL
Mixture.....FULL RICH
Fuel Valve.....OPPOSITE
Magnetos BOTH
Fuel Pump.....ON

SHORTLY BEFORE LANDING

Mixture.....CUT OFF
Fuel Valve.....CLOSED
Magnetos..... OFF
Flaps.....AS REQUIRED
GEN/BAT Master Switch OFF

ENGINE FAILURE DURING FLIGHT

ENGINE RUNNING ROUGHLY

Mixture.....FULL RICH
Fuel Pump.....ON
Fuel Valve.....OPPOSITE
Throttle.....1/2 OPEN
Magnetos L-BOTH-R-BOTH
Starter.....IF NO WINDMILLING START
No Improvement.....LAND ASAP

RESTARTING THE ENGINE WITH PROPELLER WINDMILLING

Airspeed.....86 KIAS
Fuel Pump.....ON
Mixture.....CUT OFF
Fuel Valve.....OPPOSITE
Throttle.....1/2 OPEN
Mixture.....SLOWLY ENRICH

AFTER SUCCESSFUL RE-START

Oil Pressure.....CHECK
Oil Temp.....CHECK
Fuel Pump.....ON
Electrical Equipment.....ON IF REQUIRED

RESTARTING THE ENGINE WITH PROPELLER AT FULL STOP

Airspeed.....86 KIAS
Fuel Pump.....ON
Mixture.....CUT OFF
Fuel Valve.....OPPOSITE
Throttle.....1/2 OPEN
Starter.....10 SEC
Mixture.....ENRICH DURING START

AFTER SUCCESSFUL RE-START

Oil Pressure.....CHECK
Oil Temp.....CHECK
Fuel Pump.....ON
Electrical Equipment.....ON IF REQUIRED

GLIDING

Flaps.....CRUISE
Airspeed.....86 KIAS
Glide ratio.....9:1

EMERGENCY LANDING

INSUFFICIENT ENGINE POWER

Airspeed Glide.....86 KIAS
Fuel Valve.....CLOSED
Mixture.....IDLE CUT-OFF
Magnetos OFF
Safety Belts.....SECURED
Radio.....TRANSMIT
Flaps.....AS REQUIRED
Airspeed (Flaps LDG) 65-70 KIAS
GEN/BAT Master Switch OFF

ENGINE FIRE DURING ENGINE-START-UP ON THE GROUND

Fuel Valve.....CLOSED
Cabin Heat.....CLOSED
Mixture.....IDLE CUT-OFF
GEN/BAT Master Switch.....OFF
Magnetos.....OFF
Evacuation.....IMMEDIATELY

ENGINE FIRE DURING FLIGHT

Fuel Valve.....CLOSED
Cabin Heat.....CLOSED
Airspeed.....86 KIAS
Fuel Pump.....OFF
Emergency Landing.....PERFORM

ELECTRICAL FIRE INCLUDING SMOKE DURING FLIGHT

GEN/BAT Master Switch OFF
Cabin Air.....OPEN
Fire Extinguisher....USE IF SMOKE CONTINUES
Avionics Master Switch.....OFF
Electrical Equipment.....OFF
Circuit Breakers.....PULL ALL
Circuit Breaker BAT PUSH

CHECK RESULTS AFTER EVERY STEP

BAT Master Switch.....ON
Circuit Breaker ALT PUSH
GEN Master Switch ON
Circuit Breaker BUS 3.....PUSH
Avionics Master Switch.....ON
Radio.....ON
Circuit Breaker BUS 1.....PUSH
Transponder.....ALT
Circuit Breaker BUS 2.....PUSH
Circuit Breakers R-M SWITCH, FLARM PUSH
Required Systems.....ON

LAND AS SOON AS POSSIBLE

CHECK LISTS MARKED WITH THE THICK VERTICAL LINE ON THE LEFT SHOULD BE MEMORIZED

ELECTRICAL FIRE INCLUDING SMOKE ON THE GROUND

GEN/BAT Master Switch OFF
IF ENGINE RUNNING
Throttle.....IDLE
Mixture.....CUT OFF
Fuel Valve.....CLOSED
Magnetos..... OFF
Doors.....OPEN
Fire Extinguisher.....USE IF REQUIRED

CABIN FIRE DURING FLIGHT

GEN/BAT Master Switch OFF
Cabin Air.....OPEN
Cabin Heat.....CLOSED
Fire Extinguisher.....USE IF REQUIRED
LAND AS SOON AS POSSIBLE

STARTER RELAY FAILURE

STARTER LIGHT REMAINS ILLUMINATED

Throttle.....IDLE
Mixture.....CUT OFF
Magnetos..... OFF
MAINTENANCE ACTION IS REQUIRED

ELECTRICAL POWER FAILURE

Circuit Breaker.....RESET
GEN/BAT Master Switch ON
IF POWER NOT RESTORED
GEN/BAT Master Switch OFF
LAND AT NEAREST SUITABLE AIRPORT

GENERATOR FAILURE

GENERATOR LIGHT ILLUMINATED

GEN Master Switch.....OFF-ON
Circuit Breaker.....GEN RESET
Circuit Breaker..... GEN CONTROL RESET
IF UNSUCCESSFUL
Electrical load.....REDUCE
LAND AT NEAREST SUITABLE AIRPORT

AIRSPPEED FOR SAFE OPERATION

Best Rate-of-Climb Sp (V_y) CRUISE....78 KIAS
Best Angle-of-Climb Sp (V_x) CRUISE...65 KIAS
Best Rate-of-Climb Speed (V_y) LDG....70 KIAS
Best Angle-of-Climb Speed (V_x) LDG....58 KIAS
Max Flaps Extended T/O Sp (V_{FE T/O})....95 KIAS
Max Flaps Extended LDG Sp (V_{FE LDG})...95 KIAS
Normal Operating Speed (V_{NO}).....128 KIAS
Landing Final App Speed LDG.....73 KIAS
Best Glide Angle Speed.....86 KIAS
Maneuvering Speed (V_A).....122 KIAS
Max Demo Crosswind.....25 KIAS

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