

**PREFLIGHT**

1. Aircraft Documents.....ON BOARD
2. Weight and Balance.....CALCULATE
3. Safety Belts.....CHECK
4. Ignition.....OFF
5. Acumulator.....ON
6. Fuel Level.....CHECK
8. Flaps.....LANDING
9. Fuel Selector.....LEFT OR RIGHT
10. Acumulator.....OFF
11. First Aid Kit.....CHECK
12. Fire Extinguisher.....CHECK
13. Baggage.....STOWED & SECURED

**EXTERIOR INSPECTION**

**LEFT WING**

1. Fuel Quantity.....VISUAL CHECK
2. Prandtl Tube.....CLEAN
3. Leading Edge and Skin.....VISUAL CHECK
4. Fuel Vent.....VISUAL CHECK
5. Landing/Taxi Lights.....VISUAL CHECK
6. Wing Tip, NAV Light.....VISUAL CHECK
7. Aileron.....VISUAL CHECK
8. Flap.....VISUAL CHECK
9. Left Main Landing Gear.....CHECK
10. Fuel Drain.....PERFORM

**TAIL**

1. Antennas.....VISUAL CHECK
2. Static Ports.....VISUAL CHECK
3. Stabilator, Tab.....VISUAL CHECK
4. Vertical Tail, Rudder.....VISUAL CHECK
5. Tie Down Ring.....VISUAL CHECK

**RIGHT WING**

1. Fuel Drain.....PERFORM
2. Right Main Landing Gear.....CHECK
3. Flap.....VISUAL CHECK
4. Aileron.....VISUAL CHECK
5. Wing Tip, NAV Light.....VISUAL CHECK
6. Leading Edge and Skin.....VISUAL CHECK
7. Fuel Quantity.....VISUAL CHECK

**NOSE**

1. Nose Gear.....CHECK
2. Propeller.....CLEARANCE MIN 25 CM
3. Propeller Blades.....CHECK
4. Spinner.....VISUAL CHECK
5. Air Intakes.....CLEAR
6. Cowling.....VISUAL CHECK
7. Oil.....CHECK LEVEL
8. Tow Bar and Chocks.....REMOVE
9. Windshield, Windows.....VISUAL CHECK
10. One More 360°.....PERFORM

**BEFORE STARTING ENGINE**

1. Seat, Safety Belts ... FASTENED & ADJUSTED
2. Passenger Briefing.....COMPLETED
3. Circuit Breakers.....ALL ON
4. Fuel Selector.....LEFT OR RIGHT
5. Conopy.....CLOSED

**ENGINE START**

1. Mixture.....FULL RICH
2. Carburetor Heat.....OFF
3. Alternator.....ON
4. Generator.....ON
5. Beacon Light.....ON
6. Nav. Light.....AS REQUIRED
7. Fuel pump.....ON
8. Throttle.....1/8" OPEN
9. Breaks.....HOLD
10. Propeller Area.....CLEAR
11. Starter.....ENGAGE ( MAX 10 SEC)
12. Throttle.....1000 RPM
13. Oil Pressure.....CHECK

**AFTER STARTING ENGINE**

1. Fuel pump.....OFF
2. Cabin Heat.....AS REQUIRED
3. AZS Radio.....ON
4. AZS Transponder.....ON
5. AZS Turn Coordinator.....ON
6. Avionics.....ON
7. Engine Instruments.....CHECK
8. Altimeters.....SET

**TAXI**

1. Off-block Time.....NOTICE
2. Taxi Light.....ON
3. Brakes.....CHECK
4. Flight Instruments.....CHECK

**RUN UP POSITION**

1. Brakes.....HOLD
2. Taxi Light.....OFF
3. Flight Controls.....FREE AND CORRECT
4. Engine Parameters.....CHECK
5. Fuel Selector.....LEFT OR RIGHT
6. Mixture.....FULL RICH
7. Trim.....SET FOR TAKE-OFF
8. Throttle.....1800 RPM SET
9. Magnetos.....CHECK
10. Carburettor Heat.....ON/OFF
11. Engine Parameters.....CHECK
12. Throttle.....IDLE/1000 RPM SET
13. Take-Off Briefing.....COMPLETED

**LINE UP**

1. Conopy.....CLOSED & LOCKED
2. Flaps.....T/O
4. Carburetor Heat.....OFF
5. Transponder.....ALT
4. Fuel pump.....ON
5. Clearence.....OBTAIN
6. Taxi/Landing Lights.....ON
7. Brakes.....OFF

**TAKE-OFF**

1. Throttle.....FULL
2. Engine Instruments.....CHECK
3. Rotation.....60 KIAS
4. Climb Speed.....70-80 KIAS

**CLIMB**

1. Flaps.....UP
2. Throttle.....SET
3. Landing/Taxi Light.....OFF
4. Fuel pump.....OFF
6. Climb Speed.....70-80 KIAS

**CRUISE**

1. Cruise Power.....SET 2200-2500 RPM
2. Engine Instruments.....CHECK
3. Carburetor Heat.....AS REQUIRED
4. Fuel Selector.....AS REQUIRED
5. Fuel Consumption.....CHECK

**FINAL**

1. Flaps.....LANDING
2. Carburetor Heat.....ON
3. Landing/Taxi Light.....ON
4. Fuel Pump.....ON
5. Approach Speed.....70 KIAS

**GO AROUND**

1. Throttle.....FULL
2. Flaps.....T/O
3. Airspeed.....70 KIAS

**RUNWAY VACATED**

1. Flaps.....UP
2. Transponder.....STBY
3. Carburetor Heat.....OFF
4. Fuel pump.....OFF
5. Landing Light.....OFF

**SHUT DOWN POSITION**

1. Brakes.....HOLD
2. Taxi light.....OFF
3. Engine/cooling.....PERFORM
4. Avionics.....OFF
5. AZS Transponder.....OFF
6. AZS Radio.....OFF
7. Mixture.....CUT-OFF
8. NAV Light.....OFF
9. Beacon Light.....OFF
10. Ignition.....OFF
11. Key.....REMOVE
12. Alternator.....OFF
13. Generator.....OFF

# EMERGENCY PROCEDURES

# PZL-150 KOLIBER

# SP-ARS

## ENGINE FAILURE DURING TAKE-OFF

1. Throttle ..... IDLE
2. Brakes ..... AS REQUIRED
3. Rudder ..... MAINTAIN DIRECTION
4. Fuel Selector ..... OFF
5. Ignition ..... OFF
6. Cabin Heat ..... OFF
7. Alternator/Generator ..... OFF
8. Parking Brake ..... ON
9. Evacuation ..... PERFORM

## ENGINE FAILURE AFTER TAKE-OFF

### INSUFFICIENT ENGINE POWER

1. Airspeed ..... 70 KIAS
2. Place to land ..... FIND
3. Flaps ..... AS REQUIRED

### SHORTLY BEFORE LANDING

1. Throttle ..... IDLE
2. Ignition ..... OFF
3. Fuel Selector ..... OFF
4. Alternator/Generator ..... OFF

## ENGINE FAILURE DURING FLIGHT

1. Fuel Selector ..... SET FOR OPPOSITE
2. Fuel Quantity ..... CHECK

### NO CHANGE

1. Land ..... ASAP

## ENGINE RESTART DURING FLIGHT

1. Carburetor heat ..... AS REQUIRED
2. Fuel Quantity ..... CHECK
3. Fuel Selector ..... SET FOR OPPOSITE
4. Throttle ..... SET

### IN CASE OF UNSUCCESSFUL

1. Engine ..... SECURE
2. Land ..... ASAP

## ENGINE SECURING

1. Throttle ..... IDLE
2. Ignition ..... OFF
3. Fuel Selector ..... OFF
4. Generator Switch ..... OFF

## FORCED LANDING

1. Airspeed ..... 70 KIAS
2. Place to land ..... FIND
3. Flaps ..... AS REQUIRED

### SHORTLY BEFORE LANDING

1. Throttle ..... IDLE
2. Ignition ..... OFF
3. Fuel Selector ..... OFF
4. Master Switch ..... OFF

## GLIDING

1. Flaps ..... UP
2. Airspeed ..... 70 KIAS

## ENGINE FIRE DURING FLIGHT

1. Cabin Heat ..... OFF
2. Fuel Shut-off valve ..... OFF
3. Throttle ..... FULL FORWARD
4. Ignition ..... OFF
5. Cabin Vents ..... OPEN
6. Land ..... ASAP

## ENGINE FIRE ON THE GROUND

1. Fuel Selector ..... OFF
2. Ignition ..... OFF
3. Throttle ..... FULL FORWARD
4. Cabin Heat ..... OFF
5. Alternator ..... OFF
6. Parking Brake ..... ON
7. Evacuation ..... PERFORM

## CABIN FIRE/ELECTRICAL SMOKE IN CABIN DURING FLIGHT

1. Cabin Heat ..... OFF
2. Cabin Vents ..... OPEN
3. Fire Extinguisher ..... USE

### IF SMOKE PERSISTS

1. Alternator/Generator ..... OFF
2. Land ..... ASAP

## CABIN FIRE/ELECTRICAL SMOKE IN CABIN ON THE GROUND

1. Throttle ..... IDLE
2. Ignition ..... OFF
3. Fuel Shut-off valve ..... OFF
4. Alternator/Generator ..... OFF
5. Evacuation ..... PERFORM

## EVACUATION

1. Seat Belts ..... UNSTRAP
2. Headphones ..... REMOVE
3. Doors ..... OPEN
4. Escape away ..... PERFORM

## RECOVERY FROM UNINTENTIONAL SPIN

1. Throttle ..... IDLE
2. Rudder ..... OPPOSITE DIRECTION
3. Stick ..... NEUTRAL

### AT THE SPIN STOPS

1. Rudder ..... NEUTRAL
2. Stick ..... SMOOTHLY PULL
3. Throttle ..... SET

## TRIM RUNAWAY

1. Airspeed ..... ADJUST
2. Land ..... ASAP

## FLAPS FAILURE

1. Breaker ..... IN
2. Approach speed ..... 64 KIAS
3. Landing length ..... INCREASED 35%

## ALTOUT CAUTION IS ON

1. Breaker ..... CHECK IN
2. Generator Switch ..... OFF/1 SEC/ON

### NO CHANGE

1. Generator Switch ..... OFF
2. Electrical Load ..... REDUCE
3. Land ..... ASAP

### OP LOW

1. Throttle ..... REDUCE
2. Land ..... ASAP

## HIGH OIL TEMPERATURE

1. Throttle ..... REDUCE
2. Airspeed ..... INCREASE

### NO CHANGE

1. Land ..... ASAP

## CHT/CT LIMIT EXCEEDANCE

1. Throttle ..... REDUCE
2. Land ..... ASAP

## AIRSPEED FOR SAFE OPERATION

- Rotation Speed (V<sub>R</sub>) FLAP T/O ..... 54 KIAS
- Best Rate-of-Climb (V<sub>Y</sub>) FLAP UP ..... 79 KIAS
- Best Angle-of-Climb (V<sub>X</sub>) FLAP UP ..... 65 KIAS
- Max Flaps Extended (V<sub>FE</sub>) ..... 75 KIAS
- Approach Speed FLAP LDG ..... 70 KIAS
- Touch Down Speed FLAP LDG ..... 54 KIAS
- Maneuvering Speed (V<sub>A</sub>) ..... 90 KIAS
- Never Exceed Speed (V<sub>NE</sub>) ..... 135 KIAS
- Max Demo Crosswind ..... 15 KIAS