Zelf Vliegen

Checklist Blackshape PH-4N3



Blackshape PH-4N3 frontseat Checklist

ATTENTION!
DO NOT
STOW THIS CHECKLIST
IN DIRECT SUNLIGHT

Zelf Vliegen Emoeweg 1, Lelystad Telefoon: 0320 – 785522 Issue 2, August 2016

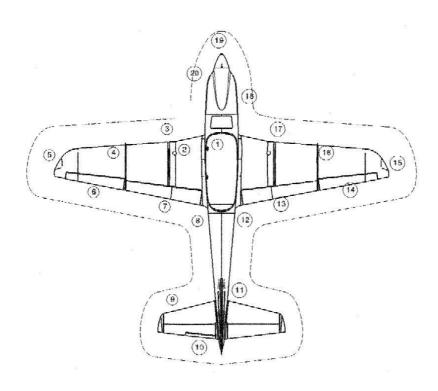
Preflight Inspection Blackshape PH-4N3

NOTE:

The PIC (Pilot in Command) is solely responsible and must, before every flight, perform a complete inspection of the aircraft, known as "pre-flight inspection". Below the complete list of "pre-flight inspection" is listed.

| GEAR SWITCH DOWN!!! | | |
|---------------------------|--|--|
| IN CABIN CHECKS | | |
| Airplane documents | CHECK | |
| Flight controls | CHECK (for proper direction of movement) | |
| Ignition Key | PULLED OUT | |
| Parking Brake | ON | |
| Throttle | IDLE | |
| BATT | ON | |
| Avionics | ON | |
| Fuel quantity | CHECK | |
| Circuit breakers | Pressed in | |
| Flaps | CHECK (extend and retract fully) | |
| Trim | CHECK (fully up, fully down, neutral) | |
| Exterior lights | CHECK | |
| Avionics | OFF | |
| BATT | OFF | |
| Foreign Object inspection | CHECK | |
| Baggage | STOWED | |
| Canopy | Clean and undamaged | |
| Parking Brake | OFF | |

Walk around check and visual inspection



| | WALK AROUND CHECKS |
|----|--|
| 1 | Canopy and opening handle - CHECK |
| 2 | Tank Cap - CHECK closed |
| 3 | Left main landing gear: (A) Main Leg conditions (B) Shocks conditions |
| | (C) Tire wear (D) Tire pressure |
| 4 | Leading edge and wing skin (LH): (A) CHECK integrity, cleaning and good conditions (B) CHECK inspections doors (C) CHECK the static/pitot for possible contamination or obstruction |
| 5 | Left wing tip: (A) CHECK integrity and good conditions (B) CHECK control fittings attachment points, control and joints |
| 6 | Left aileron: (A) CHECK integrity and good conditions (B) CHECK control fittings attachment points, control and joints |
| 7 | Left flap and hinges: (A) CHECK integrity and good conditions (B) CHECK plays and controls |
| 8 | Left side fuselage - Visual inspection |
| 9 | Fixed horizontal tail plane: (A) CHECK the leading edge, verify its cleaning (B) CHECK fin junction |
| 10 | Elevator: (A) CHECK integrity and good conditions of elevators (B) CHECK control fittings attachment points (C) CHECK movements (D) CHECK trim |
| 11 | Vertical Empennage and Rudder: (A)CHECK integrity and good conditions (B) CHECK control fittings attachment points (C) CHECK movements (min plays) |
| 12 | Right Side Fuselage - Visual inspection |
| 13 | Right Flap and hinges: (A) CHECK integrity and good conditions (B) CHECK plays and controls |

| 14 | Right aileron: | | |
|----|---|-------------------------------|--|
| | (A) CHECK integrity and good cond | itions | |
| | (B) CHECK control fittings attachment points, control and joints | | |
| 15 | Right wing tip: | | |
| | (A) CHECK integrity and good conditions | | |
| | (B) CHECK strobe and navigation lig | ghts | |
| 16 | Leading edge and wing skin (RH): | | |
| | (A)CHECK integrity, cleaning and good conditions | | |
| | (B) CHECK inspections doors | | |
| 17 | Right main landing gear: | | |
| | (A) Main leg conditions | | |
| | (B) Shocks conditions | | |
| | (C) Tire wear | | |
| | (D) Tire pressure | | |
| 18 | Upper/lower cowling: | | |
| | (A) CHECK integrity, cleaning and good conditions | | |
| | (B) CHECK Air intake | | |
| 19 | Propeller and spinner: | | |
| | (A) CHECK fixing and condition of material (absence of chipping, plays) | | |
| 20 | Control engine compartment: | | |
| | (A)Foreign bodies | absent | |
| | (B) Colling circuit | absence of leaks | |
| | (C) Coolant | CHECK quantity | |
| | (D) Coolant Radiator | Absence of leaks | |
| | (E) Oil circuit | Absence of leaks | |
| | (F) Propeller | rotate 6/10 round | |
| | (G) Oil | CHECK level | |
| | (H) Oil Radiator | Absence of leaks | |
| | (I) Fuel circuit | Absence of leaks | |
| | (L) Gascolator | Bleeding | |
| | (M) Throttle control cables | CHECK | |
| | (N) Air ducts and filters | Visual inspection | |
| | (O) Air-box | CHECK | |
| | (P) Breakings and reference marks | | |
| | (Q) Silentblocs | CHECK | |
| | (R) Cowling | CLOSE and LOCK (visual check) | |

NORMAL CHECKLIST BLACKSHAPE PH-4N3

BEFORE STARTING THE ENGINE

WARNING

BEFORE STARTING THE ENGINE, THE CANOPY MUST BE CLOSED AND LATCHED AFTER STARTING THE ENGINE, THE CANOPY MUST STAY IN THE CLOSED AND LATCHE POSITION UNTIL THE ENGINE IS SHUT DOWN DURING ENGINE OPERATION IT IS PROHIBITED TO ENTER OR EXIT THE

| AINFLAINL | | |
|----------------------------|--|--|
| CHECK | | |
| COMPLETED | | |
| ON BOARD | | |
| ADJUSTED | | |
| REMOVE | | |
| | | |
| LEFT OR RIGHT (least full) | | |
| FASTENED | | |
| ON | | |
| FREE and CORRECT | | |
| IDLE | | |
| MAX | | |
| ON | | |
| ON | | |
| TEST | | |
| CLOSED and LOCKED | | |
| | | |

| STARTING THE ENGINE | | |
|-----------------------------------|-----------------------------------|--|
| Fuel Selector | LEFT OR RIGHT (least full) | |
| Ignition Key | Insert | |
| Throttle | IDLE | |
| Choke | OPEN (if necessary) | |
| Carburetor Heat | OFF | |
| BATT | CHECK ON | |
| Avionics | CHECK ON | |
| Radio | OFF | |
| Fuel Pump | ON | |
| Strobe | ON | |
| Time | NOTED | |
| Propeller Area | CLEAR | |
| Avionics | OFF | |
| Starting Engine – key in position | START (Max for 10 seconds) | |
| After starting | | |
| Alternator | ON | |
| Avionics | ON | |
| RPM | 2000 RPM for 2 minutes then 2500 | |
| | RPM | |
| Fuel Pump | OFF | |
| Fuel pressure | CHECK | |
| Choke | CLOSED (push) | |
| Engine Instruments | CHECK | |
| Oil pressure | CHECK (max 7 bar, cold situation) | |

| BEFORE TAXI | |
|-------------------|-----------------------------------|
| Oil Pressure | CHECK (green arc) |
| Oil Temperature | +/- 50°C (increasing during taxi) |
| Avionics | SET |
| Radio | ON AND SET |
| Altimeter | QNH |
| Navigation lights | ON |

| | TAXI |
|---------------------------------|-------------|
| Parking Brake | OFF |
| Throttle | As required |
| Brakes | CHECK |
| Directional Control | CHECK |
| Flight / navigation instruments | CHECK |
| Compass | CHECK |

| ENGINE RUN-UP | | |
|----------------------------------|--------------------------------------|--|
| Parking Brake | ON | |
| Throttle | 2000-2500 RPM | |
| Circuit Breakers | CHECK all in | |
| Engine | | |
| Oil temperature | 50°C - 110°C | |
| Oil pressure | 2.0 – 5.0 bar | |
| СНТ | MAX 135°C | |
| Throttle | 4000 RPM | |
| Magnetos | Cycle L – BOTH – R | |
| | (Max Drop 300 RPM | |
| | Max Difference L/R 120 RPM) | |
| RPM full back 3 times | Decrease RPM / increase MP | |
| (first flight of the day, 1 time | Decrease RPM / decrease OIL pressure | |
| otherwise) | Decrease RPM / increase RPM | |
| | (max time 5 sec. to be at 4000 RPM) | |
| Throttle | IDLE | |
| Amp | CHECK (light off) | |
| Fuel quantity | CHECK | |
| Fuel selector | RIGHT (or fullest) | |
| Flight Instruments | CHECK | |
| Flaps | T/O | |
| Flight controls | FREE and CORRECT | |
| Trim | NEUTRAL | |
| Safety Belts | FASTENED | |

ONLY FOR RFI "GOPRO" SWITCH ON

| RUNWAY ITEMS | |
|-----------------------|---------------------|
| Parking Brake | OFF |
| Fuel Pump | ON |
| BATT / ALT | CHECK ON |
| Ignition | вотн |
| Flaps | CHECK (TO position) |
| Trim | CHECK neutral |
| Take off area / final | FREE |
| Transponder | ALT or AUTO |
| Landing Light | ON |
| Controls | FREE |

| TAKE OFF and CLIMB | | |
|----------------------------|------------------------------------|--|
| Take off authorization | RECEIVED (if applicable) | |
| Brakes | RELEASED | |
| Throttle | FULL POWER | |
| Directional Control | Keep with pedals | |
| Airspeed | CHECK increasing | |
| Rotate | V_R 55 KIAS and V_{TO} 60 KIAS | |
| Brakes | APPLY (temporarily after lift-off) | |
| Vertical Speed | CHECK increasing | |
| Climb Speed | 75 KIAS | |
| Landing Gear | UP | |
| Flaps (above 300 feet AGL) | UP | |
| Climb Speed | 85 KIAS | |
| Landing Light | OFF | |
| Fuel pump | OFF (above 1000 ft) | |
| Throttle | As required | |
| Trim | SET | |

| CRUISE | | |
|-----------------|-----------------|--|
| MP / RPM | SET | |
| Engine | | |
| Oil temperature | 90° - 110°C | |
| Oil pressure | 2.0 – 5.0 bar | |
| CHT | Less than 135°C | |
| Carburetor Heat | As required | |

| DESCENT | |
|---------------------------------|-------------------------------------|
| Flight and avionics instruments | SET |
| RPM | MAX |
| Fuel pump | ON |
| Carburetor Heat | As required |
| Throttle | As required |
| Flaps | CHECK V _{FE} - as required |

| BEFORE LANDING | | |
|------------------------|--------------------------------------|--|
| Landing light | ON | |
| Safety Belts | FASTENED | |
| BATT / ALT | CHECK ON | |
| Ignition | СНЕСК ВОТН | |
| Fuel Pump | CHECK ON | |
| Throttle | As required | |
| Speed | 75 KIAS | |
| Landing gear | DOWN and LOCKED (3 greens) | |
| Speed | 70 KIAS (advise flaps 20 degrees) ** | |
| Speed | 65 KIAS (short runway landing) | |
| Brakes (after landing) | As required | |

| AFTER LANDING | | |
|---------------|-------|--|
| Flaps | UP | |
| Landing Light | OFF | |
| Fuel Pump | OFF | |
| Time | NOTED | |

WARNING FOR STRONG HEADWIND, CROSSWIND, DANGER OF WINDSHEAR OR TURBULENCE: A HIGHER APPROACH SPEED SHOULD BE SELECTED

| | TAXI |
|-------------|----------------------------|
| Power | 2000 – 2500 RPM x 1 minute |
| Transponder | STBY or AUTO |

| ENGIN | IE SHUT OFF |
|------------------------------------|------------------------------|
| Parking Brake | ON |
| Engine Instruments | CHECK |
| Radio | OFF |
| ALT | OFF |
| RPM | Min 1600 – 1700 RPM |
| Ignition | OFF |
| Key | Remove |
| BATT | OFF |
| Fuel Selector | Keep in latest used position |
| Avionics | OFF |
| All electrical switches | OFF |
| Safety pin for emergency ballistic | INSERT |
| parachute | |
| Place caps on the pitot tube and | |
| any other safety | |

FLIGHT IN RAIN

NOTE:

FLIGHT PERFORMANCE MIGHT BE REDUCED. T/O DISTANCE AND MAXIMUM HORIZONTAL AIR SPEED MIGHT BE ESPECIALLY AFFECTED. THE INFLUENCE ON FLIGHT CHARACTERISTICS OF THE AIRPLANE MIGHT BE SUBJECT TO VARIATION. FLIGHTS THROUGH HEAVY RAIN SHOULD BE AVOIDED DUE TO THE REDUCED VISIBILITY

WARNING NO WATERPROOF

OPERATING SPEEDS AND LIMITATIONS

| OPERATING SPEEDS | | |
|--|-----------------------|--|
| Take-off for 50 feet obstacle | 75 KIAS | |
| Beste Angle (Vx) wing flaps cruise | 65 KIAS at 10 degrees | |
| Beste Rate (Vy) wing flaps cruise | 85 KIAS at 1100 fpm | |
| Glide | 70 KIAS (2 persons) | |
| Vno Speed in rough air | 135 KIAS | |
| Va speed with full control surfaces | | |
| deflections | 85 KIAS | |
| Vne (never exceed) | 164 KIAS | |
| Vfe flaps 10 degrees (T/O) | 80 KIAS POH | |
| Vfe flaps 20 degrees (approach) | 75 KIAS POH | |
| Vfe flaps 30 degrees (landing) | 70 KIAS POH | |
| Vldg | 70 KIAS 20 degrees | |
| Downwind flaps 10 degrees | 20 / 5000 / 80 | |
| Base flaps 20 degrees (gear down) | 23 / 5000 / 75 | |
| Final flaps 30 degrees (advise 20 degrees) | 23 / MAX / 70 | |
| Crosswind max | 16,1 kts | |
| Balked landing (go-around) | 70 KIAS | |

^{**}NOTE: Increase Speed by 5 kts if 2 persons weight above standard.

| MANEUVERING LOAD FACTORS | | |
|--------------------------|-------|-----|
| No flaps | +4(6) | -2 |
| Flaps | +2 | 0.0 |

APPROVED MANEUVERS

This airplane is for non-aerobatic use only.

The aerobatic use does not includes:

- All the maneuvers related to "normal" flights, Stalls (except whip stalls), Lazy eight, Turns with angle of inclination not exceeding 60 degrees

| ENGINE POWER SETTING | | | |
|----------------------|-----------------------|----|----------------------|
| Power setting | Engine speed (RPM) | MP | Speed |
| 100% TO perform | 5800 | 28 | 140 KIAS (max 5 min) |
| Max cruise | 5500 | 28 | 135 KIAS |
| 90% | 5000 | 28 | 130 KIAS |
| 75% | 5000 | 26 | 120 KIAS |
| 65% | 5000 | 24 | 100 KIAS |
| 55% | 5000 | 22 | 90 KIAS |

EMERGENCY CHECKLIST BLACKSHAPE PH-4N3

ENGINE FAILURES

| ENGINE FAILURE DURING TAKE-OFF RUN | | |
|------------------------------------|-------------|--|
| Engine Throttle | IDLE | |
| Brakes | As required | |
| Flaps | UP | |
| Fuel Selector | OFF | |
| Ignition | OFF | |
| BATT / ALT | OFF | |

| ENGINE FAILURE IMMEDIATELY AFTER TAKE-OFF | | |
|---|---------------|--|
| Insufficient engine power | | |
| Airspeed | 70 KIAS | |
| Engine Throttle | FULL Power | |
| Fuel Selector | LEFT or RIGHT | |
| Ignition | вотн | |
| Fuel Pump | Check ON | |

WARNING

IF ADEQUATE ENGINE PERFORMANCE CANNOT BE RESTORED IMMEDIATELY, PREPARE FOR AN EMERGENCY LANDING. IF POSSIBLE, LAND STRAIGHT AHEAD, AVOIDING OBSTACLES

| SHORTLY BEFORE LANDING | | |
|------------------------|---------------------------|--|
| Engine Throttle | IDLE | |
| Fuel Selector | OFF | |
| Ignition | OFF | |
| Flaps | As required | |
| BATT / ALT | OFF | |
| Engine off | Perform Emergency Landing | |

| ENGINE FAILURE IN FLIGHT | | |
|--------------------------|-------------------|--|
| Airspeed | 70 KIAS | |
| Engine Throttle | OPEN 1/3 | |
| Carb Heat | OPEN | |
| Fuel Selector | LEFT or RIGHT | |
| Ignition | вотн | |
| Fuel Pump | ON | |
| Ignition | START | |
| If no improvement | Perform emergency | |

| LOW FUEL PRESSURE | | |
|--------------------------|-----------------------------|--|
| Fuel Pump | ON | |
| Fuel Selector | LEFT or RIGHT | |
| Fuel Quantity | CHECK | |
| Get ready to perform | Emergency Power-Off Landing | |
| Land as soon as possible | | |

| LOW OIL PRESSURE | | |
|--|-----------------------------|--|
| OIL Temp | CHECK | |
| Get ready to handle an imminent engine failure: reach the glide range of an area suitable for an | Emergency landing | |
| Ignition | OFF | |
| Get ready to perform | Emergency Power-Off landing | |

| HIGH OIL TEMPERATURE | | |
|---------------------------|--------------------------|--|
| OIL Temp above green arc | Reduce power to minimum | |
| If Oil Temp FALLS | | |
| Land | As soon as possible | |
| If OIL Temp does NOT FALL | | |
| CHECK CHT and EGT | | |
| CHT and EGT Fall | Land as soon as possible | |
| CHT and EGT does NOT FALL | | |
| Get ready to perform | Emergency landing | |

| ROUGH ENGINE OPERATION | | |
|-------------------------------|-----------------------------|--|
| Engine Throttle | Maintain the position | |
| Carburetor Heat | ON | |
| Fuel Pump | ON | |
| Ignition Cycle | L – BOTH – R – BOTH | |
| Engine Parameters | CHECK | |
| If no improvement – get ready | Emergency Power-Off landing | |

EMERGENCY LANDING

| EMERGENCY POWER-OFF LANDING | | |
|-----------------------------|--------------------------------|--|
| Airspeed | 70 KIAS | |
| Fuel Selector | OFF | |
| Ignition | OFF | |
| Safety belts | FASTENED | |
| Radio | Communicate on 121,5 Mhz, give | |
| | location and intention | |
| Landing gear | DOWN (3 greens) | |
| Flaps | As required | |
| BATT / ALT | OFF | |
| After touchdown | Apply brakes as required | |

| PRECAUTIONARY POWER-ON LANDING | | |
|---|---------------------------------------|--|
| | NOTE: | |
| A PRECAUTIONARY LANDING WO | OULD BE REQUIRED IF CONTINUING THE | |
| FLIGHT WOULD ENDANGER 1 | THE AIRCRAFT OR ITS OCCUPANTS. | |
| CIRCUMSTANCES, INCLUDING | MECHANICAL DEFECTS, LOW FUEL | |
| QUANTITY OR DETERIORATING W | /EATHER CONDITIONS COULD REQUIRE | |
| A PRECAUTI | ONARY LANDING. | |
| Identify landing area. Pay parti | cular attention to wind direction and | |
| ol | ostacles | |
| Safety belts | FASTENED and TIGHTENED | |
| Initiate | DESCENT | |
| Flaps | As required | |
| Landing gear DOWN (3 greens) | | |
| Fly over the landing area (not below 500 ft) to confirm suitablility and that | | |
| the approach route is free of obstacles | | |
| Climb to circuit | | |
| Radio | Communicate location and intentions | |

PRECAUTIONARY POWER-ON LANDING CHECKLIST

| PRECAUTIONARY POWER-ON LANDING (CONTINUATION) | | | |
|--|-------------|--|--|
| A | Approach | | |
| Engine Throttle | As required | | |
| Fuel Pump | ON | | |
| Flaps | LANDING | | |
| Airspeed | 70 KIAS | | |
| Touchdown shall be performed with minimum airspeed, nose wheel | | | |
| should be kept above the ground as long as possible | | | |
| After touchdown | | | |
| Brakes | As required | | |
| Fuel Selector | OFF | | |
| Ignition | OFF | | |
| BATT / ALT | OFF | | |

NOTE:

IF NO SUITABLE LEVEL LANDING AREA CAN BE FOUND, AN UP-HILL LANDING SHOULD BE PERFORMED IF POSSIBLE

GLIDING

| GLIDING | | | | |
|---|--|---------|--|--|
| Flaps | | UP | | |
| Airspeed | | 70 KIAS | | |
| Glide ratio | | 11:1 | | |
| E 1 C 4 000 C C D D D D D D D D | | | | |

Example: for every 1.000 ft of altitude the aircraft can move forward 15.000 ft or 2.8 NM

| LANDING GEAR FAILURE | | |
|---|-----------------------------|--|
| Circuit Breaker | CHECK (reset if tripped) | |
| Airspeed | MAX 70 KIAS | |
| Landing gear lever | DOWN | |
| Landing gear lights | CHECK (3 greens) | |
| If the landing gear does not go down due to electrical issue | | |
| Airspeed | Max 65 KIAS | |
| Actuate individually each emergency gear extension handle until their | | |
| stops to ensure the gear is down and locked | | |
| Follow the normal landing procedure | | |
| Airspeed Max 80 KIAS | | |
| If the landing gear does not go down due to mechanical issue | | |
| Airspeed | Max 65 KIAS | |
| Landing gear | FULL UP | |
| Flaps | FULL UP | |
| Follow | Emergency landing procedure | |

FIRE and SMOKE

| ENGINE FIRE DURING START-UP ON THE GROUND | | |
|--|--------------------------------|--|
| Engine Cranking | CONTINOUS | |
| If the | engine starts | |
| Power | High RPM for 2 – 3 minutes | |
| Engine | Shut off (inspect for damages) | |
| If the engine fails to start | | |
| Throttle | FULL OPEN | |
| Engine Cranking | CONTINOUS | |
| Fuel Selector | OFF | |
| Cabin Heater | CLOSE | |
| Ignition OFF | | |
| All electrical switches | OFF | |
| Evacuate the aircraft | | |
| Extinguish the fire using a powder of CO ² extinguisher direction the jet | | |
| directly on the intake of the engine cowling. | | |

| IN FLIGHT ENGINE FIRE | | |
|-----------------------|-----------------------------|--|
| Fuel Selector | OFF | |
| Engine Throttle | FULL power | |
| Cabin Heater | CLOSE | |
| Airspeed | 70 KIAS | |
| Fuel Pump | OFF | |
| Ignition | OFF | |
| Flaps | As required | |
| Get ready for | Emergency Power-off landing | |
| BATT / ALT | OFF in final | |

| IN FLIGHT CABIN FIRE | | |
|---------------------------------------|-----------------------------|--|
| BATT | OFF | |
| Cabin Heater | OFF | |
| Cabin Ventilation | CLOSE | |
| Fire | Smother | |
| When fire is out | | |
| Cabin Ventilation | OPEN | |
| Cabin Heater | Keep OFF | |
| If the situation cannot be controlled | | |
| Proceed to | Emergency landing immediate | |

| FIRE OF ELECTRICAL ORIGIN INCLUDING SMOKE DURING FLIGHT | | |
|---|------------------------------------|--|
| BATT | OFF | |
| Cabin Ventilation | CLOSE | |
| Cabin heater | CLOSE | |
| Fire | Smoother | |
| If fire is out and electricity | is required to continue the flight | |
| Cabin Ventilation | OPEN | |
| Avionic Switch | OFF | |
| All switches | OFF | |
| Circuit Breakers | Press All | |
| Circuit Breakers | Press BATT | |
| BATT Switch | ON | |
| Avionic Switch | ON | |
| Circuit Breakers | Operate individually and check the | |
| | presence of smoke | |
| Radio | ON | |
| Land as soon as possible | | |
| If the situation cannot be controlled | | |
| Proceed | Emergency landing immediate | |

| GROUND FIRE OF ELECTRICAL ORIGIN INCLUDING SMOKE | | | |
|--|-----------------|--|--|
| If engine is OFF | | | |
| BATT / ALT | OFF | | |
| If engine is RUNNING | | | |
| Engine Throttle | IDLE | | |
| Fuel selector | OFF | | |
| Ignition | OFF | | |
| Canopy | OPEN | | |
| Extinguisher | Use as required | | |

| | UNINTENTIONAL FLIGHT INTO ICING AREA |
|---|---|
| 1 | Leave the area of ice formation through a change of altitude and/or |
| | flight direction. Fly to an area with a higher air temperature. |
| 2 | Keep moving the control surfaces to maintain their movability. |
| 3 | Increase RPM to avoid icing of propeller blades (Maximum RPM) |

WARNING IN CASE OF FORMATION OF ICE ON THE WINGS, THE STALL SPEED WILL **INCREASE**

| RECOVERING FROM UNINTENTIONAL SPIN | | |
|------------------------------------|---|--|
| Engine Throttle | IDLE | |
| Rudder Pedals | Opposed to direction of rotation | |
| Control Stick | Ease forward, ailerons neutral | |
| Rudder Pedals | Centered after rotation stop | |
| Flaps | UP | |
| Elevator | Pull cautiously. Bring the airplane from descent into level flight. Do not exceed the maximum permissible airspeed (Vne). | |

WARNING

THE AIRCRAFT IS NOT SUITABLE TO SPIN MANEUVRES. SPIN RECOVERY HAS NOT BEEN DEMONSTRATED. IF RECOVERY MANEUVRES FAIL, PREPARE TO ACTUATE THE BALLISTIC RECOVERY SYSTEM ACCORDING TO MANUFACTURER'S INSTRUCTION.

| | LANDING WITH A DEFLATED TIRE ON THE MAIN LANDING GEAR |
|---|---|
| 1 | Final approach with flaps in LDG position |
| 2 | Land airplane on the side of runway opposite to the side with the |
| | defective tire to compensate for change in direction which is to be |
| | expected during the landing roll. |
| 3 | Land with wing slightly tipped in the direction of non-defective tire. To |
| | increase the maneuverability during rolling, the nose-wheel should be |
| | brought to the ground as soon as possible after touch-down. |
| 4 | To ease the load on the defective tire, the aileron should be fully |
| | applied in the direction of the non-defective tire. |

ELECTRICAL FAILURE

| TOTAL ELECTRICAL FAILURE | | |
|--------------------------|-------------------------------|--|
| BATT Circuit Breaker | If tripped, reset (only once) | |
| BATT / ALT | CHECK ON | |
| If no improvement | Land as soon as possible | |

| GENERATOR FAILURE | | |
|--------------------------------------|---------------------------|--|
| GEN Annunciator illuminated / | | |
| Indication on Avionic System | | |
| (Dynon) | | |
| BATT | RESET OFF/ON | |
| GEN Circuit Breaker | If tripped, reset | |
| If ur | nsuccessful | |
| (A) Switch OFF all non-flight essent | tial electrical consumers | |
| (B) Monitor Voltmeter/Ammeter | | |
| (C) Land as soon as possible | | |

NOTE:

ON SHUTDOWN OF GENERATOR, THERE IS UP TO 30 MINUTES OF BATTERY POWER IF IT IS FULLY CHARGED AND PROPERLY MAINTAINED.

| ELECTRIC CHARGE | | |
|-------------------|-----------|--|
| AMP / VOLT | CHECK | |
| ALT | OFF | |
| VOLT | Green arc | |
| ALT | ON | |
| VOLT | CHECK | |
| If no improvement | | |
| GEN | OFF | |

| FLAP SYSTEM FAILURE | | |
|--|----------------------------|--|
| Flaps Mode | MAN | |
| Flaps Actuator | Check operation / position | |
| If no improvement | | |
| Flaps circuit breaker RESET | | |
| Actuator CHECK operation | | |
| In case of failure Landing procedure with no flaps | | |

| TRIM SYSTEM FAILURE | | |
|---------------------|-------------------------------------|--|
| Circuit Breaker | CHECK, reset if tripped | |
| Trim Control | CHECK correct operation | |
| If no improvement | Continue the flight normally | |
| | considering a greater effort on the | |
| | control stick | |

| IN FLIGHT LOSS OF CANOPY | | |
|--------------------------|-----------------------|--|
| Airspeed | Do not exceed 65 KIAS | |
| Maneuverability | CHECK at 60 KIAS | |
| Land as soon as possible | | |

| OPENING THE EMERGENCY PARACHUTE | | |
|---------------------------------------|----------------------------------|--|
| Level aircraft | If possible | |
| Ensure Min opening height if possible | Min 33 m | |
| Fuel Selector | OFF | |
| Alternator | OFF | |
| BATT | OFF | |
| All electrical switches | OFF | |
| Opening handle | Pull vigoursly | |
| Safety belts | Fastened and tightened | |
| Open canopy safety latches | | |
| Before impact | Curried up position | |
| After impact | Move away from the aircraft aqap | |

NOTE:

SHOULD YOU ACUALLY NEED TO OPEN THE EMERGENCY BALLISTIC PARACHUTE, ALLOW FOR THE TIME IT WILL NEED TO UNWRAP COMPLETELY (ABOUT 2 SECONDS).

WARNING

THE CAPACILITY OF THE BALLISTIC RECOVERY SYSTEM HAS NOT BEEN DEMONSTRATED IN FLIGHT



© COPYRIGHT Zelf Vliegen

No part of this checklist or its extracts may be reproduced in any form, by print, photo print, microfilm or any other means, without written permission from Zelf Vliegen.

Circuitbreakers PH-4N3 (situated right lower panel)

| Front | | | |
|--------------------|-------|------------------|----|
| Spare | 20A | Flaps | 3A |
| AP pitch/roll | 3A | Trim | 14 |
| Right LG | 7%A | Starter | 3A |
| Nose LG | 71⁄2A | 12 V socket | 5A |
| Left LG | 7%A | Aux | 3A |
| LG control | 2A | VOR | 44 |
| Taxi lights | 1A | Transp | 3A |
| Strobe lights | 7%A | Intercom | 14 |
| Nav/pos lights | 3A | Com | 5A |
| Fuel pump | 2A | Pax display | 5A |
| Avionics master | 15A | Pilot display | 5A |
| Batt | 30A | Batt ctrl | 2A |