# EMERGENCY PROCEDURES S/N 17273007

1980 Cessna 172N – N1472F Air Plains 180 HP Conversion

Serial No. 17265685 to 17271034

### Engine Failure During Takeoff Roll

- 1. Throttle ......IDLE
- 2. Brakes .....APPLY
- 3. Flaps.....RETRACT
- 4. Mixture...... IDLE CUT OFF
- 5. Ignition Switch .....OFF
- 6. Master.....OFF

### Engine Failure Immediately After Takeoff

- 1. Airspeed..... 70 KIAS (Flaps Up) 65 KIAS (Flaps Down)
- 2. Mixture ..... IDLE CUT OFF
- 3. Fuel Selector.....OFF
- 4. Ignition .....OFF
- 5. Wing Flaps . AS REQUIRED
- 6. Master Switch .....OFF

### Engine Failure During Flight (Restart)

- 1. Airspeed......75 KIAS 2. Carb Heat ..... ON
- 3. Fuel Selector .....BOTH
- 4. Mixture ......RICH
- 5. Ignition .....BOTH
- (or START if propeller is stopped)
- 6. Primer ..... IN & LOCKED

### Forced Landing Without Engine Power

- 1. Airspeed ......70 KIAS (Flaps Up) 65 KIAS (Flaps Down)
- 2. Mixture ..... IDLE CUT OFF
- 3. Fuel Selector ......OFF
- Ignition.....OFF
  Wing Flaps ...... AS REQUIRED
- (30º Recommended)
- 6. Master Switch.....OFF
- 7. Doors.....UNLATCHED (Prior To Touchdown
- 8. Touchdown......Slightly Tail Low 9. Brakes......APPLY HEAVILY
- 9. DIAKES ..... APPLY HEAVILY

### Precautionary Landing With Engine Power

- 1. Wing Flaps ..... 20°
- 3. Select Field ..... PERFORM Fly Over Inspection
- 4. Radio & Electrical Switches OFF
- 5. Flaps .....  $30^{\circ}$  on Final Approach
- 6. Airspeed ......65 KIAS
- 7. Avionics & Master Switches OFF
- 8. Doors.....UNLATCHED (Prior To Touchdown)
- 9. Touchdown...... Slightly Tail Low
- 10. Ignition Switch.....OFF
- 11. Brakes..... APPLY HEAVILY

# Engine Fire During Start

- 1. Continue Cranking Engine
- 2. If Engine Starts:.....Power 1700 RPM for a few minutes
- 3. Engine Shutdown and INSPECT **If Engine Fails to Start:**
- 4. Throttle.....FULL OPEN
- 5. Mixture ..... IDLE CUT OFF
- 6. Cranking..... CONTINUE
- 7. Fire Extinguisher ...... OBTAIN 8. Master/Ignition/Fuel
- 8. Master/Ignition/Fuel .....OFF

#### 9. Fire ...... EXTINGUISH Ca 10. Fire Damage......INSPECT 1.

# Engine Fire in Flight

- 1. Mixture ..... IDLE CUT OFF
- 2. Fuel Selector ..... OFF
- 3. Master Switch ..... OFF
- 4. Cabin Heat & Air .....OFF (Except Overhead Vents)
- 5. Landing/Taxi Lights ......OFF
- 7..Forced Landing w/o Engine Power EXECUTE

# Electrical Fire in Flight

- 1. Master Switch.....OFF (Leave Ignition On)
- 2. All Other Switches (Except Ignition) ...... OFF
- 3. Vents/Cabin Air/HeatCLOSED
- 4. Fire Extinguisher . ACTIVATE

Warning After discharging an extinguisher within a closed cabin, ventilate the cabin.

### If fire is extinguished & electrical power is necesary

- 5. Master Switch .....ON
- 6. Circuit Breakers ..... CHECK for Faulty circuit (Do Not Reset)
- Radio/Electrical Switches on one at a time w/ delay after each to locate short.
- 8. Vent cabin when assured fire is extinguished

# Cabin Fire

- 1. Master Switch.....OFF (Leave Ignition On)
- 2. Vents/Cabin Air/HeatCLOSED
- 3. Fire Extinguisher.. ACTIVATE

# **Warning**

After discharging an extinguisher within a closed cabin, ventilate the cabin.

4. LAND. As soon as possible and INSPECT damage

# Wing Fire

- 1. Navigation Lights.....OFF
- 2. Strobe Lights.....OFF
- 3. Pitot Heat .....OFF

# Note

Sideslip to keep flames away from the fuel tank and cabin, and land as soon as possible using flaps only as required for final approach and touchdown.



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- 1. Pitot Heat..... ON
- 2. Turn back or change altitude to obtain an outside air temp that is less conducive to icing.
- 3. Pull cabin heat control to full out and open defroster outlet to obtain maximum windshield defroster airflow.
- 4. Open the throttle to increase engine speed and minimize ice build-up on propeller blades
- 5. Watch for signs of carburetor air filter ice and apply carburetor heat as required. An unexplained loss in engine speed could be caused by carburetor ice or air intake filter ice. Lean the mixture if carb heat is used continuously.
- 6. Plan a landing at the nearest airport. With an extremely rapid ice build-up, select a suitable "off airport" landing site.
- With ice accumulation of ¼ inch or more on the wing leading edges, be prepared for significantly higher stall speed.
- 8. Leave wing flaps retracted. With a severe ice build-up on the horizontal tail, the change in wing wake airflow direction caused by wing flap extension could result in a loss of elevator effectiveness.
- 9. Open left window and if practical scrape ice from a portion of the windshield for visibility in landing approach.
- 10. Perform landing approach using a forward slip, if necessary, for improved visibility.
- 11. Approach at 80 to 90 KIAS depending upon the amount of accumulation.

12. Perform a landing in level attitude.

### **Ditching**

- 1. Radio.....Transmit MAYDAY On 121.5 giving location and intentions and squawk 7700.
- 2. Heavy Objects.....SECURE Or Jettison.
- 3. Flaps ..... 20° to 30°
- 4. Power ..... Est. a 300 FPM descent at 55 KIAS.
- 5. Approach High winds, heavy seas ...... Into
  - the Wind.

Light winds, heavy swells...... Parallel to swells.

#### Note

If no power is available, approach at 70 KIAS with flaps up or at 65 KIAS with 10º flaps

- 6. Cabin Doors ..... UNLATCH
- 7. Touchdown..... Level attitude at established descent rate.
- 8. Face ...... Cushion at touchdown with folded coat or seat cushion.
- Airplane ......Evacuate through Cabin doors. If necessary, open window and flood cabin to equalize pressure so doors can be opened.
- 10. Life vests and raft ..... INFLATE

# For all other Emergency Abnormal Procedures. See the POH Section 3.

### Airspeeds for Emergency Operations

#### Engine Failure After Takeoff:

Wing Flaps Up -- 70 KIAS Wing Flaps Down -- 65 KIAS

#### Maneuvering Speed:

2550 Lbs – 105 KIAS 2150 Lbs – 95 KIAS 1750 Lbs – 85 KIAS

#### Maximum Glide:

2550 Lbs – 68 KIAS 2150 Lbs – 62 KIAS 1750 Lbs – 56 KIAS

### Precautionary Landing With Engine Power – 65 KIAS

### Landing Without Engine Power: Wing Flaps Up – 70 KIAS Wing Flaps Down – 65 KIAS

This checklist is a guide to coordinate Pilot Operating Handbook and STC data applicable to this particular aircraft only. The applicable Pilot Operating Handbook and STC installations remain the official documentation for this aircraft.

The pilot in command is responsible for complying with all items in the Pilot Operating Handbook and applicable STCs.

I certify this checklist has been reviewed for accuracy.

In a Salvado

02/6/06 Wing Director of Maintenance Date