YOKOTA AERO CLUB CESSNA 172M N1840V / N22905

EMERGENCY CHECKLIST version 7.1

Date: 1 Feb 2014

DO NOT REMOVE CHECKLIST FROM AIRCRAFT

NOTES

This emergency procedures checklist is intended to supplement the information contained in the Pilot's Operating Handbook (POH) and serve as a handy in-flight reference and instructional tool. Whenever time permits in an emergency situation, pilots should make use of all sources of information including the expanded text in the POH.

In any emergency situation the pilot's priorities should be

- Maintain aircraft control.
- Analyze the situation. Take corrective action.

Procedures shown inside a dashed box are time critical steps that should be committed to memory so that they can be accomplished without referring to the checklist

As time permits during the handling of an emergency the pilot should then use the checklist to confirm that all procedures in a dashed box have been accomplished.

"Land as soon as practicable" as used in this checklist means that the pilot should and at the nearest airfield that has a suitable runway (length, type surface) and weather appropriate for the pilot's proficiency and the type aircraft flown.

ENGINE FAIL DURING TAKEOFF ROLL ENGINE FAIL IMMEDIATELY AFTER **TAKEOFF**

PARTIAL ENGINE LOSS ENGINE FAIL DURING FLIGHT

EMERGENCY LANDING WITHOUT ENGINE POWER PRECAUTIONARY LANDING WITH **ENGINE POWER**

DITCHING

ENGINE FIRE DURING START ON GROUND ENGINE FIRE ON GROUND ENGINE FIRE IN FLIGHT WING FIRE

CABIN OR ELECTRICAL FIRE IN FLIGHT

LOW OIL PRESSURE WITH NORMAL OIL TEMP LOW OIL PRESSURE WITH HIGH OIL TEMP AMMETER INDICATES EXCESSIVE

RATE OF CHARGE AMMETER INDICATES DISCHARGE

LANDING WITH A FLAT MAIN TIRE **EMERGENCY DESCENT**

CABIN DOOR OPEN IN FLIGHT AFTER EMERGENCY LANDING

RADIO FAILURE ATC LIGHT SIGNALS

1.	ENGINE FAILURE DURING TAKEOFF
	ROLL
1. 2.	THROTTLEIDLE BRAKESAPPLY
3. 4. 5. 6.	WING FLAPS RETRACT MIXTURE CUT-OFF IGNITION SWITCH OFF MASTER SWITCH OFF
2.	ENGINE FAILURE IMMEDIATELY AFTER

1.	AIRSPEED	80 мрн
	MIXTURE	CUT-OFF
3.	FUEL SELECTOR VALVE	OFF
4.	IGNITION SWITCH	OFF
5.	WINGS FLAPS	AS REQUIRED
6.	MASTER SWITCH	OFF

PARTIAL ENGINE LOSS

1. Fuel Selector Valve... SWITCH TO OPPOSITE TANK for 60 sec

2. Fuel Selector Valve......SELECT

4. ENGINE FAILURE DURING FLIGHT

Ι.	AIRSPEED /O IVIPI
2.	PRIMERCHECK IN
	IGNITION SWITCH CHECK R, L, BOTH
	(START IF PROP IS STOPPED)
4.	CARBURETOR HEAT ON
5.	MIXTUREFULL RICH
6.	FUEL SELECTOR VALVE BOTH
7.	THROTTLE & MIXTURETRY DIFFERENT SETTINGS

If Power is Not Restored **Execute EMERGENCY LANDING** WITHOUT ENGINE POWER

EMERGENCY LANDING WITHOUT ENGINE POWER

1.	AIRSPEED 80 MPH
2.	IGNITION SWITCH OFF
3.	MIXTURECUT-OFF
4.	FUEL SELECTOR VALVE OFF
5.	SQUAWK
6.	RADIO CALL MAYDAY
7.	SEAT BELTS & HARNESSES TIGHTEN
8.	CABIN DOORS. UNLATCH PRIOR TO TOUCHDOWN
	Once Landing is Assured
9.	ELT REMOTE SWITCH ON
10	.FLAPS 30° RECOMMENDED
11	FINAL APPROACH SPEED 69 MPH
12	.Master Switch OFF
13	.Touchdown Slightly Tail Low
14	.Brakes AS REQUIRED

6. PRECAUTIONARY LANDING WITH **ENGINE POWER**

1.	SEAT BELTS & HARNESSES TIGHTEN
2.	SQUAWK
3.	RADIO CALLMAYDAY
4.	ELT REMOTE SWITCHON
5.	WING FLAPS 20°
6.	AIRSPEED 70 MPH
7.	SELECTED FIELD OVER FLY AND INVESTIGATE
8.	WING FLAPS UP WHEN SAFE TO DO SO
9.	AVIONICS POWER & ELECTRICAL SWITCHESOFF

Once Landing is Assured

10.FLAPS	40° On Final Approach
11. FINAL APPROACH SPE	ED 69 MP F
12. Master Switch O	FF PRIOR TO TOUCHDOWN
13. Cabin Doors Unlat	CH PRIOR TO TOUCHDOWN
14. Touchdown	SLIGHTLY TAIL LOW
15. Ignition Switch	OFF AT Touchdown
16. MIXTURE IDLE	CUT-OFF AT TOUCHDOWN
17. Brakes	As Required

7. DITCHING 1. SQUAWK......7700

2.	RADIO CALL MAYDAY
3.	ELT REMOTE SWITCH ON
4.	LOOSE OBJECTS SECURE OR JETTISON
5.	SEAT BELTS & HARNESSES TIGHTEN
	Approach
6.	HIGH WINDS, HEAVY SEAS INTO THE WIND
7	LIGHT WINDS HEAVY SWELLS PARALLEL TO SWELLS

10. *If engine power is not available, approach at 80 mph with flaps up or 70 mph with 10° flaps

Touchdown

11. Cabin Doors Unlatch Prior to Touchdown 12. TOUCHDOWNLEVEL ATTITUDE - MINIMIZE DESCENT

13. FACE CUSHION AT TOUCHDOWN

Evacuation
14.AIRPLANE EVACUATE 15.Life Vests......Inflate

8. ENGINE FIRE DURING START ON GROUND

STARTER CONTINUE CRANKING
THROTTLEFULL OPEN

If Fire Continues

3. Power....... 1700 RPM for a few minutes 4. ENGINE SHUTDOWN

If Engine Fails to Start

5. THROTTLEFULL OPEN 6. MIXTURE..... IDLE CUT-OFF CRANKING CONTINUE

MASTER SWITCH OFF Ignition Switch OFF

10. Fuel Selector Valve...... OFF 11. ABANDON AIRCRAFT AND USE FIRE EXTINGUISHER

9. ENGINE FIRE WHILE ON GROUND

1. Fuel Selector Valve..... MIXTURE..... IDLE CUT-OFF 3. Ignition Switch...... OFF 4. MASTER SWITCH...... OFF
5. ABANDON AIRCRAFT AND USE FIRE EXTINGUISHER

ENGINE FIRE IN FLIGHT

1. 2.	MIXTURE FUEL SELECTOR VALVE	IDLE CUT-OFF
3.	Master Switch	OFF
4.	CABIN HEAT / AIR	OFF
5.	AIRSPEED	110 MPH

Execute EMERGENCY LANDING WITHOUT ENGINE POWER

WING FIRE 11.

- LANDING/TAXI LIGHTSOFF IF LEFT WING AFFECTED PITOT HEAT SWITCHOFF IF LEFT WING AFFECTED
- Navigation Light Switch..... OFF STROBE LIGHT SWITCH..... OFF
- Slip to keep flames away from fuel tanks and cabin

ATC Light Signals

COLOR/TYPE OF SIGNAL	AIRCRAFT ON GROUND	AIRCRAFT IN FLIGHT
Steady Green	Cleared for takeoff	Cleared to land
Flashing Green	Cleared for taxi	Return for landing (to be followed by steady green)
Steady Red	STOP	Give way to other aircraft and continue circling
Flashing Red	Taxi clear of runway in use	Airport unsafe, do not land
Flashing White	Return to starting point on airport	Not applicable
Alternating Red / Green — — —	Exercise extreme caution	Exercise extreme caution
Acknowledge all light signals by flashing landing light or rocking wings.		

Transponder Codes

1200 **VFR** 7500 **HIJACK** 7600 LOST COMMUNICATION 7700 **EMERGENCY** "MAYDAY-MAYDAY-MAYDAY" "PAN - PAN - PAN"

Lost Procedure

CLIMB CONSERVE COMMUNICATE **CONFESS COMPLY**

VFR Diversion

- 1. Determine position
- 2. Determine approx. heading to new destination using VOR compass rose
- 3. Turn to heading and note time
- 4. Climb or descend based on new magnetic course
- 5. Measure distance from present position to new destination
- Calculate ground-speed and WCA based on planned TAS (convert wind-drift to magnetic)
- 7. Determine ETE based on GS and distance
- 8. Calculate fuel burn based on ETE and remaining fuel
- 9. Communicate new destination, ETE and fuel remaining to FSS

CROSSWIND COMPONENT CHART Reference Checklist Supplement

YOKOTA AB (042-552-2510)

BASE OPERATION..225-7214 (EXT 5-7214) AERO CLUB..........225-8988 (EXT 5-8988) VICTOR ARZUAGA CELL...090 9594 3683

12. CABIN OR ELECTRICAL FIRE WHILE IN

2. 3.	MASTER SWITCHOFF WING ROOT VENTSCLOSED CABIN AIR / HEATOFF
4.	VENTS & CABIN AIR/HEATOPEN WHEN FIRE IS OUT
5.	LAND AS SOON AS PRACTICABLE
	If Fire Appears Out and Electrical
	Power is Necessary for Continued
	Flight
6.	ALL SWITCHES BUT IGNITION OFF
7.	CIRCUIT BREAKERSCHECK (DO NOT RESET)

MASTER SWITCH.....ON 9. ELECTRICAL SWITCHES ON, ONE AT A TIME

13. LOW OIL PRESSURE WITH NORMAL **OIL TEMPERATURE**

- 1. Throttle...Make Minimum Power Changes
- 2. Conserve Altitude Until Landing is Assured
- 3. Land as Soon as Practicable

14. LOW OIL PRESSURE WITH HIGH OIL **TEMPERATURE**

- THROTTLE REDUCE POWER TO MINIMUM NECESSARY
- 2. EXECUTE .. PRECAUTIONARY LANDING WITH POWER

AMMETER INDICATES EXCESSIVE RATE OF CHARGE

1.	ALTERNATOR CIRCUIT BREAKER	. PULL
2.	NONESSENTIAL EQUIPMENT	OFF
3.	FLIGHT TERMINATE AS SOON AS PRA	CTICAL

16. AMMETER INDICATES DISCHARGE

1.	AVIONICS SWITCH	OFF
2.	ALTERNATOR CIRCUIT E	Breaker . Check/Reset
3.	MASTER SWITCHES	OFF THEN ON
4.	AMMETERCHEC	K BATTERY IS CHARGING

5. Avionics Switch ON

If Low-Voltage Light Remains On or

Ammeter Still Indicates Discharge NONESSENTIAL EQUIPMENT OFF 7. LAND AS SOON AS PRACTICABLE

Note: If Master Switch is turned OFF after battery has drained below current level to activate battery contactor, subsequent activation of Master Switch will be ineffective.

17. LANDING GEAR – FLAT MAIN TIRE

Use Fuel Selector to Reduce Weight on the Side of the Flat Tire If Practicable, Land with Crosswind From

the Side Opposite the Flat Tire

- ALIGN WITH THE SIDE OF THE RUNWAY OF THE GOOD TIRE
- TOUCHDOWN SLIGHTLY WING-LOW ON SIDE OF GOOD TIRE
- 4. LOWER NOSE WHEEL FOR DIRECTIONAL CONTROL
- AILERON...WEIGHT OFF FLAT TIRE AS LONG AS POSSIBLE 5
- BRAKING ON GOOD WHEEL ONLY

LANDING GEAR - FLAT NOSE TIRE 18.

- 2
- TOUCHDOWN.....ON RUNWAY CENTERLINE YOKE... FULL AFT - MINIMIZE WEIGHT ON NOSE WHEEL
- 4. Braking Minimum Required

	THROTTLEIDLE
2.	AILERONS NEUTRAL
3.	RUDDERFULL OPPOSITE DIRECTION OF THE SPIN
4	CONTROL WHEEL FORWARD - BREAK STALL

RUDDER . NEUTRALIZE WHEN ROTATION STOPS

ELEVATOR RECOVER SMOOTHLY FROM ENSUING DIVE

EMERGENCY DECSENT 20.

1.	CARB HEAT	ON
2.	THROTTLE	IDLE
3.	MIXTURE	FULL RICH
4.	FLAPS	DOWN
5.	AIRSPEED	100 MPH

CABIN DOOR OPEN IN FLIGHT 21.

1. Fly the AirplaneThis is not an emergency

Land Close Door After Aircraft Stops If Landing is Impractical CLIMB SAFE ALTITUDE W/AIRCRAFT UNDER CONTROL

4. AIRSPEED...... 70 MPH CABIN VENTS CLOSED WINDOW OPEN

7. Push door open...... Then slam it closed

22. AFTER EMERGENCY LANDING

1. Master Switch......Confirm OFF 2. ELTACTIVATE

ABANDON AIRCRAFT UNTIL ALL DANGER OF FIRE IS PASSED

When it is safe to return to the aircraft

4. ELT REMOVE AND INSTALL ANTENNA - TURN ON

(ELT is behind the rear panel in the baggage area)

If Radio is Still Operative

5. Make Periodic Mayday Calls and Monitor **121.5** FOR INSTRUCTIONS

23. **AUTOPILOT FAILURE**

1.	AUTOPILOT I	Master Switch	OFF
2.	AUTOPILOT (CIRCUIT BREAKE	RPULL

RADIO FAILURE

1.	Audio (CONTROLS	CHECK	VOLUME	SQUELCI	H/ALL
2.	GARMIN	650	Conf	IRM AUTO	OSQUELC	ΗΟΝ

Allow breakers to cool 3 minutes before resetting. Never reset a breaker more than ONCE

5.	ATTEMPT CONTACT ON ANOTHER FREQUENCY
6.	SpeakerON
7.	Transponder
0	CONTINUE TRANSMICCIONIC (ONLY DESCRIPTION)

CONTINUE TRANSMISSIONS (ONLY RECEIVER MAY BE INOP)

- 1. Monitor Airport Traffic Pattern activity.
- 2 Descend and maintain 1500 feet MSL.
- 3. Enter midpoint west side downwind leg.
- 4. Wait for light signals from Tower.

IF ANY DISCREPANCIES ARE FOUND, PLEASE NOTIFY THE AERO CLUB STAFF AND ANNOTATE DISCREPANCIES ON MAINTENANCE FORM AND DISPATCH PROGRAM.