

### After Takeoff (Out of 1000' AGL)

AIRSPEED .....  $V_y / V_x$  / AS REQ  
(If a maximum performance climb is necessary,  
use speeds in rate-of-climb data charts  
in section 5 of the POH/AFM.)

FLAPS ..... UP  
THROTTLE ..... FULL  
MIXTURE ..... FULL RICH BELOW 3000' MSL

### Cruise

POWER ..... ( $\leq 75\%$  Power per POH/AFM) SET  
ENGINE INSTRUMENTS ..... CHECK  
MIXTURE ..... LEAN AS REQUIRED  
MAG COMPASS / HI ..... CHECK / SET

### In-Range / Descent

ATIS / AWOS (As early as possible) ..... CHECK  
ALTIMETER ..... SET  
PRELIMINARY APPROACH BRIEF  
Type of Approach  
Runway length / Lighting  
Field Elevation / Sector Altitude  
Highest Obstacle / Terrain Review  
NAV / Course / Minimums / Missed  
Crosswind Component ..... COMPLETE  
AIRPORT DIAGRAM (Keep available) ..... CHECK  
SEAT BELTS ..... FASTENED  
MIXTURE ..... SLIGHTLY ENRICH

### Approach (Approx 15 NM from Airport)

ATIS/AWOS ..... CHECK  
APPROACH BRIEFING ..... COMPLETE  
ALTIMETER ..... SET  
HEADING INDICATOR TO COMPASS ..... SET  
FUEL SELECTOR ..... BOTH  
PARKING BRAKE ..... CHECK RELEASED  
LANDING LIGHT ..... ON

#### WHEN DIRECT TO IAF OR VECTORED

FLIGHT & NAV INSTRUMENTS ..... SET/IDENT  
GPS (As Required for Approach) ..... SET  
AIRSPEED ..... 90 KIAS

### Before Landing Checklist

FUEL SELECTOR ..... BOTH  
MIXTURE ..... FWD  
LANDING LIGHT ..... AS REQ

### Go Around / Missed Approach

THROTTLE ..... FULL  
FLAPS ..... (If  $> 20^\circ$ ) RETRACT  $20^\circ$   
PITCH ..... EST CLIMB  
FLAPS ..... ( $> 60$  KIAS) RETRACT  $10^\circ$   
AIRSPEED .....  $V_y / V_x$  / AS REQ

#### AT SAFE ALTITUDE & $> 65$ KIAS

FLAPS ..... UP  
FLY ASSIGNED/PUBLISHED HEADING & ALTITUDE

### After Landing (Stopped)

TRIM ..... CENTERED  
FLAPS ..... UP  
STROBE ..... (if in interest of safety) OFF  
LANDING & TAXI LIGHTS ..... ON  
MIXTURE ..... LEAN FOR RPM RISE  
TAXI CLEARANCE ..... OBTAIN & BRIEF

### Shutdown/Terminate

AVIONICS MASTER ..... OFF  
THROTTLE ..... 1000 RPM  
MIXTURE ..... CUTOFF  
IGNITION SWITCH ..... OFF  
MASTER SWITCH ..... OFF  
ELECTRICAL SWITCHES ..... OFF  
FLIGHT CONTROLS ..... SECURE  
COVER ..... INSTALL  
TIEDOWN / CHOCK ..... SECURE  
WALKAROUND ..... COMPLETE

#### Avoid Slips with Flaps Extended



## CESSNA 172 Normal Checklist

Revised 2020-11-19

### Preflight Inspection

BLOCK-OUT ..... SUBMITTED & CONF. REC'D  
WEATHER ..... CHECK  
WEIGHT AND BALANCE ..... COMPUTE  
FUEL (Full, unless limited by W&B) ..... AS REQ  
OIL ..... CHECK  
PITOT HEAT ..... (If IFR) CHECK

#### INTERIOR

FIRE EXTINGUISHER ..... CHECK  
AIRCRAFT DOCUMENTS ..... CHECK  
CONTROL WHEEL LOCK ..... REMOVE  
POH/AFM ..... CHECK  
IGNITION SWITCH ..... OFF  
MASTER SWITCH ..... ON  
FUEL QUANTITY ..... CHECK  
ALTERNATE STATIC SOURCE ..... OFF  
BEACON, STROBES, NAV & LANDING LIGHTS ..... CHECK  
FLAPS ..... FULLY EXTEND  
MASTER SWITCH ..... OFF  
FUEL SELECTOR VALVE ..... BOTH  
FUEL SHUTOFF VALVE ..... IN  
BAGGAGE AND LOOSE ITEMS ..... STOWED

#### EMPENNAGE

BAGGAGE DOOR ..... CHECK  
RUDDER GUST LOCK ..... (If installed) REMOVE  
CONTROL SURFACES ..... (Freedom & security) CHECK  
TRIM TAB ..... CHECK  
ANTENNAS ..... CHECK

#### RIGHT WING TRAILING EDGE

FLAP ..... (Security) CHECK  
AILERON ..... (Freedom & security) CHECK

#### RIGHT WING & LEADING EDGE

FUEL QUANTITY ..... CHECK VISUALLY  
FUEL FILLER CAP ..... SECURE  
FUEL TANK SUMPS ..... CHECK

Check for water and sediment.

MAIN WHEEL TIRE, BRAKE DISC & PADS ..... CHECK

Check for wear and proper inflation.

Continued..

## Preflight Inspection (Continued)

### NOSE

WINDSHIELD .....CHECK FOR CLEANLINESS  
FUEL SUMPS .....TAKE SAMPLE

Check for water & sediment.

OIL LEVEL.....CHECK & SECURE CAP  
Do not operate with less than 6 quarts for local training or less than 7 quarts for extended flights. Do not over-tighten oil cap.

OIL ACCESS DOOR.....SECURE  
ENGINE COOLING AIR INLETS .....CHECK  
PROPELLER & SPINNER.....CHECK  
ENGINE AIR FILTER.....CHECK  
NOSE WHEEL STRUT (Approx. 3" Extension) .....CHECK  
NOSE WHEEL TIRE.....CHECK  
STATIC SOURCE OPENING.....CHECK

### LEFT WING & LEADING EDGE

FUEL QUANTITY .....CHECK VISUALLY  
FUEL FILLER CAP .....SECURE  
FUEL TANK SUMPS .....CHECK  
PITOT TUBE COVER.....REMOVE  
PITOT TUBE.....CHECK UNOBSTRUCTED  
STALL HORN OPENING .....CHECK UNOBSTRUCTED  
FUEL TANK VENT .....CHECK

### LEFT WING TRAILING EDGE

AILERON.....(Freedom & security) CHECK  
FLAP .....(Security) CHECK  
MAIN WHEEL TIRE, BRAKE DISC & PADS .....CHECK  
GENERAL WALKAROUND.....CHECK

## Before Starting Engine

PREFLIGHT INSPECTION.....COMPLETE  
WT&BAL, DOCS, PERFORMANCE .....CHECK  
CELL PHONE ..... AIRPLANE MODE  
PASSENGER BRIEF.....COMPLETE

Doors, Seats & Seatbelts (Positive Latch),

Fire Extinguisher, No Smoking, PIC Authority

SEAT & SEAT BELTS .....ADJUST AND LOCK  
CIRCUIT BREAKERS .....CHECK IN  
ELECTRICAL SWITCHES..... OFF  
IGNITION SWITCH..... OFF  
AVIONICS MASTER SWITCH..... OFF  
ALTERNATE STATIC SOURCE..... OFF  
FUEL SELECTOR VALVE..... BOTH  
FUEL SHUTOFF VALVE .....(push full in) ON  
MASTER SWITCH .....ON  
BEACON .....ON  
POSITION LIGHT .....(night only) ON  
STROBE LIGHTS .....ON

Strobes may be left off if this is in the interest of safety.

## Engine Start

THROTTLE.....! " OPEN

### COLD ENGINE

MIXTURE .....RICH

### WARM ENGINE

MIXTURE ..... RICH  
BRAKES .....HOLD  
PROP AREA..... CLEAR  
IGNITION.....(8 Second Max) START  
MIXTURE ..... RICH

### WHEN ENGINE STARTS

THROTTLE..... 1000 RPM  
OIL PRESSURE .....(In 15 seconds) CHECK GREEN  
MIXTURE ..... LEAN FOR RPM RISE  
THROTTLE..... 1000 RPM  
FLAPS ..... UP

## After Start

HEADSETS ..... ON  
AVIONICS MASTER SWITCH..... ON  
COMS ..... ATIS/AWOS/CLEARANCE IF REQ  
ALTIMETER .....SET  
GPS .....SET  
NAVS.....SET / COURSE  
FLIGHT INSTRUMENTS  
(AI/TC/COMPASS & HI/VS) ..... CHECK

## Taxi

AIRPORT DIAGRAM .....OUT / AVAILABLE  
TAXI CLEARANCE .....OBTAIN / BRIEF  
LANDING & TAXI LIGHTS ..... ON\*  
TAXI AREA..... CLEAR  
BRAKES ..... CHECK  
FLIGHT INSTRUMENTS (AI/TC/HI/VS).....CK  
Check in turns.

STERILE COCKPIT .....  
.....NO NON-ESSENTIAL CONVERSATION

\*Turn off your taxi or landing lights when stopped, yielding, or as a consideration to other pilots, drivers or ground personnel. At all other times LANDING and TAXI lights are to remain on for all aircraft movement and flight.

## Run Up

MIXTURE ..... RICH / FULL FWD  
THROTTLE..... 1700 RPM  
MAGNETOS .....CHECK  
(Drop should not exceed 150 RPM on either magneto or a difference of 50 RPM between the two.)

CARB HEAT .....TEST  
ENGINE INSTRUMENTS & AMMETER.....CHECK  
SUCTION GAUGE .....CHECK  
THROTTLE..... IDLE / CHECK 600-800 RPM  
THROTTLE..... 1000 RPM  
MIXTURE .....LEAN FOR RPM RISE

### Pre-Takeoff Brief

#### Engine failure or abnormality during takeoff roll:

IMMEDIATELY CLOSE THROTTLE, STOP STRAIGHT AHEAD & AVOID OBSTACLES

If not enough runway remains to stop:

MIXTURE .....CUTOFF  
FUEL SHUTOFF VALVE .....PULL OUT / OFF  
BATTERY MASTER SWITCH .....OFF  
IGNITION SWITCH.....OFF  
AVOID OBSTACLES

#### Engine failure immediately after takeoff:

LAND ON REMAINING RUNWAY / WITHIN 30° OF CENTERLINE.

AVOID OBSTACLES. DO NOT ATTEMPT 180° TURN.

AIRSPD .....LOWER NOSE & ESTABLISH PITCH FOR BEST GLIDE  
FLAPS .....AS NECESSARY  
POWER.....AS AVAILABLE  
TIME PERMITTING.....DECLARE AN EMERGENCY  
FUEL SHUTOFF VALVE .....PULL OUT / OFF  
MIXTURE .....IDLE CUTOFF  
BATTERY MASTER .....OFF

## Before Takeoff

PRE-TAKEOFF BRIEF..... COMPLETE  
FLIGHT CONTROLS..... FREE & CORRECT  
FLIGHT INSTRUMENTS .....CHECK & SET  
AUTOPILOT (If Installed)..... OFF  
FUEL GAUGE / QTY ..... CHECK / SUFFICIENT  
FUEL SELECTOR.....BOTH  
TRIM.....SET T/O  
FLAPS .....SET  
GPS .....(As req. for departure) SET  
HEADING INDICATOR .....SET  
DEPARTURE BRIEF

Initial Altitude & Heading

Brief Departure Procedure..... COMPLETE

MIXTURE ..... FULL FWD (Or set for altitude)  
ENGINE INSTRUMENTS ..... CHECK  
SEAT BACKS ..... MOST UPRIGHT POSITION  
SEAT BELT & SHOULDER HARNESS .....FASTENED

### FINAL ITEMS WHEN #1 FOR TAKEOFF

DOORS & WINDOWS ..... CLOSED & LOCKED  
STROBE LIGHT ..... ON  
TRANSPONDER.....ALT  
LANDING LIGHT .....ON

## Engine Failure During Flight

AIRSPEED ..... BEST GLIDE  
NOTE WIND DIRECTION AND SPEED  
PICK & FLY TOWARDS LANDING SITE  
FLAPS ..... UP  
MIXTURE ..... RICH  
FUEL SELECTOR VALVE ..... BOTH  
FUEL SHUTOFF VALVE ..... PUSH IN / ON  
MAGNETOS ..... CHECK ALL

### IF PROP NOT WINDMILLING

IGNITION SWITCH ..... START  
MAGNETOS ..... CHECK ALL

## Precautionary Landing with Engine Power

LANDING AREA ..... SELECT & INSPECT  
RADIO & ELECTRICAL SWITCHES ..... OFF

### ON FINAL APPROACH

FLAPS ..... (30° Recommended) AS REQ  
MASTER SWITCH ..... OFF  
DOORS ..... (Prior to touchdown) UNLATCH  
IGNITION SWITCH ..... OFF  
BRAKES ..... APPLY HEAVILY

## Emergency Landing No Engine Power

LANDING AREA ..... SELECT & INSPECT  
AIRSPEED ..... BEST GLIDE  
RADIO & ELECTRICAL SWITCHES ..... OFF  
MIXTURE ..... CUTOFF  
FUEL SHUTOFF VALVE ..... PULL OUT / OFF  
IGNITION SWITCH ..... OFF  
FLAPS ..... (30° Recommended) AS REQ  
MASTER SWITCH ..... OFF  
DOORS ..... (Prior to touchdown) UNLATCH  
BRAKES ..... APPLY HEAVILY

## Pattern Work

*Touch & Go's Prohibited Except With Instructor*

### Before Landing Checklist

FUEL SELECTOR ..... BOTH  
MIXTURE ..... FWD

### Go Around / Missed Approach

THROTTLE ..... FULL  
FLAPS ..... (If > 20°) RETRACT 20°  
PITCH ..... EST CLIMB  
FLAPS ..... (> 60 KIAS) RETRACT 10°  
AIRSPEED .....  $V_y / V_x / AS REQ$

AT SAFE ALTITUDE & > 65 KIAS

FLAPS ..... UP  
FLY ASSIGNED/PUBLISHED HEADING & ALTITUDE

### Touch and Go

MAINTAIN CENTERLINE  
FLAPS ..... UP  
THROTTLE ..... FULL

#### Standardized Speeds

80 KIAS	.....	FLAPS 10° - 1500 RPM
70 KIAS	.....	FLAPS 20° - ON BASE
65 KIAS	.....	FLAPS 30° - ON FINAL UNTIL ROUNDOUT
When landing assured.		
SOFT FIELD	.....	61 KIAS - FLAPS 40°
SHORT FIELD	.....	61 KIAS - FLAPS 40°

### After Landing (Stopped)

TRIM ..... CENTERED  
FLAPS ..... UP  
STROBE ..... (if in interest of safety) OFF  
LANDING & TAXI LIGHTS ..... ON  
MIXTURE ..... LEAN FOR RPM RISE  
TAXI CLEARANCE ..... OBTAIN & BRIEF

### Before Takeoff

PRE-TAKEOFF BRIEF ..... COMPLETE  
FLIGHT CONTROLS ..... FREE & CORRECT  
FLIGHT INSTRUMENTS ..... CHECK & SET  
AUTOPILOT (if installed) ..... OFF  
FUEL GAUGE / QTY ..... CHECK / SUFFICIENT  
FUEL SELECTOR ..... BOTH  
TRIM ..... SET T/O  
FLAPS ..... SET  
GPS ..... (As req. for departure) SET  
HEADING INDICATOR ..... SET  
DEPARTURE BRIEF  
Initial Altitude & Heading ..... COMPLETE  
Brief Departure Procedure ..... COMPLETE  
MIXTURE ..... FULL FWD (Or set for altitude)  
ENGINE INSTRUMENTS ..... CHECK  
SEAT BACKS ..... MOST UPRIGHT POSITION  
SEAT BELT & SHOULDER HARNESS ..... FASTENED

#### FINAL ITEMS WHEN #1 FOR TAKEOFF

DOORS & WINDOWS ..... CLOSED & LOCKED  
STROBE LIGHT ..... ON  
TRANSPONDER ..... ALT



## CESSNA 172

### Emergency & Abnormal Checklist

Revised 2020-11-9

### Engine Failure During Takeoff Roll

THROTTLE ..... CLOSE  
BRAKES ..... APPLY  
FLAPS ..... UP  
MIXTURE ..... CUTOFF  
IGNITION SWITCH ..... OFF  
MASTER SWITCH ..... OFF

### Engine Failure During Takeoff

MAINTAIN AIRCRAFT CONTROL  
LAND ON REMAINING RUNWAY OR  
WITHIN 30° OF CENTERLINE. AVOID OBSTACLES.  
DO NOT ATTEMPT 180° TURN.  
AIRSPEED .... LOWER NOSE & PITCH FOR BEST GLIDE  
FLAPS ..... AS REQ.  
POWER ..... AS AVAILABLE  
TIME PERMITTING ..... DECLARE EMERGENCY  
MIXTURE ..... CUTOFF  
FUEL SHUTOFF VALVE ..... PULL OUT / OFF  
IGNITION SWITCH ..... OFF  
FLAPS ..... (30° Recommended) AS REQ  
MASTER SWITCH ..... OFF  
DOORS ..... UNLATCH

## Spin Recovery

In the event the aircraft enters an unintentional spin, proceed as follows.  
THROTTLE..... IMMEDIATELY CLOSED  
AILERONS ..... NEUTRALIZE  
RUDDER ..... FULL, OPPOSITE ROTATION  
ELEVATOR CONTROL .....  
..... BRISKLY FORWARD PAST CENTER

### ONCE ROTATION STOPS

RUDDER ..... NEUTRALIZE  
SLOWLY RECOVER FROM DIVE

### WHEN STRAIGHT AND LEVEL

THROTTLE..... FULL

## Cabin Fire

MASTER SWITCH ..... OFF  
VENTS, CABIN HEAT & AIR..... CLOSED  
FIRE EXTINGUISHER ..... ACTIVATE

### WHEN FIRE IS OUT

CABIN ..... VENTILATE  
LAND AS SOON AS POSSIBLE

## Wing Fire

LANDING/TAXI LIGHT SWITCHES ..... OFF  
NAV LIGHT SWITCH ..... OFF  
STROBE LIGHT SWITCH ..... OFF  
PITOT HEAT SWITCH..... OFF

Perform a sideslip to keep the flames away from the fuel tank and cabin.

Land as soon as possible using flaps only as required for final approach and touchdown.

## Electrical Fire

MASTER SWITCH ..... OFF  
ALL ELECTRICAL SWITCHES  
(Except ignition switch) ..... OFF  
VENTS, CABIN HEAT & AIR..... CLOSED  
FIRE EXTINGUISHER ..... ACTIVATE

### WHEN FIRE IS OUT

CABIN ..... VENTILATE

### IF FIRE APPEARS OUT & ELECTRICAL POWER REQ'D

MASTER SWITCH ..... ON  
CIRCUIT BREAKERS ..... (Do not reset) CHECK  
MASTER AVIONICS SWITCH ..... ON  
RADIOS ..... (One at a time with a delay after each) ON  
LAND AS SOON AS POSSIBLE

## Engine Fire In Flight

MIXTURE ..... IDLE CUT OFF  
FUEL SHUTOFF VALVE ..... OFF (Pull Full Out)  
MASTER SWITCH ..... OFF  
CABIN HEAT & AIR (Except overhead vents) ..... OFF  
AIRSPEED .....  
..... INCREASE AS REQ TO EXTINGUISH FIRE  
EXECUTE FORCED LANDING

## Engine Fire During Start

Continue cranking to get the engine started which would suck the flames and accumulated fuel into the engine.

### IF ENGINE STARTS

POWER..... (For a few minutes) 1700 RPM  
ENGINE ..... SHUTDOWN

### IF ENGINE FAILS TO START

THROTTLE..... FULL OPEN  
MIXTURE ..... IDLE CUT OFF  
CRANKING ..... CONTINUE  
FUEL SHUTOFF VALVE ..... OFF (Pull Full Out)  
FIRE EXTINGUISHER ..... OBTAIN  
MASTER SWITCH ..... OFF  
IGNITION SWITCH ..... OFF  
EVACUATE AIRCRAFT  
& SECURE FIRE EXTINGUISHER

## Cleaning Fouled Spark Plugs

(CAUTION: Hold brakes securely and remain vigilant for aircraft movement; only perform runup on surface free from gravel/dirt.)

THROTTLE..... 2000 RPM  
MIXTURE ..... LEAN FOR SLIGHT RPM DROP  
MAINTAIN FOR 60 SECONDS  
MIXTURE ..... FULL FORWARD  
THROTTLE..... 1800 RPM  
PERFORM MAGNETO CHECK

### Note:

While performing the above checklist, do not allow oil temperature to reach redline and be vigilant of oil pressure.

## Ammeter: Excessive Rate of Charge

for Ammeter Full-Scale Deflection

ALTERNATOR ..... OFF  
NON-ESSENTIAL ELEC. EQUIPMENT ..... OFF  
LAND AS SOON AS POSSIBLE  
Compass may be off as much as 25°.

## Ammeter Shows Discharge

ALTERNATOR ..... OFF  
NONESSENTIAL ELEC. EQUIPMENT ..... OFF  
LAND AS SOON AS POSSIBLE

## Low Voltage Light During Flight

RADIOS, AVIONICS POWER SWITCH..... OFF  
MASTER SWITCH ..... OFF  
MASTER SWITCH ..... ON  
LOW VOLTAGE LIGHT ..... CHECK OFF  
RADIOS, AVIONICS POWER SWITCH..... ON

### IF LOW VOLTAGE LIGHT RE-ILLUMINATES

ALTERNATOR ..... OFF  
NON-ESSENTIAL ELECT. EQUIPMENT ..... OFF  
LAND AS SOON AS POSSIBLE

## Static Source Blockage

ALTERNATE STATIC SOURCE VALVE .....  
..... PULL ON  
AIRSPEED .....  
..... CONSULT TABLES IN POH/AFM SECTION 5