



**Cessna 172 P Checklist**

**Airspeeds (KIAS)**

V <sub>R</sub> -----	55
V <sub>X</sub> -----	60
V <sub>Y</sub> -----	76
V <sub>S1</sub> -----	44
V <sub>S0</sub> -----	33
V <sub>FEE</sub> -----	110 (10° Flaps)
	85 (20° & 30° Flaps)
V <sub>A</sub> -----	99 (2,400 lbs.)
	92 (2,000 lbs.)
	82 (1,600 lbs.)
V <sub>NE</sub> -----	158
Short field takeoff (Flaps 10°) -----	Rotate - 51
	Climb (until clear of obstacles) - 56
Normal approach -----	65-75 (Flaps Retracted)
	60-70 (Flaps 30°)
Short field approach -----	61 (Flaps 30°)
Best glide -----	65
Maximum crosswind -----	15

**Weight Limits**

Maximum takeoff -----	2,400 lbs.
Maximum landing -----	2,400 lbs.

**Fuel Limits**

Total fuel -----	43 gal.
Usable fuel -----	40 gal.

**PREFLIGHT INSPECTION**

**CABIN**

TACH/HOBBS time -----	RECORD
A.R.O.W. -----	ON BOARD
Gust lock -----	REMOVE
Ignition switch -----	OFF
Avionics power switch -----	OFF
Master switch -----	ON
Fuel quantity -----	CHECK
Flaps -----	20°
Fuel selector valve -----	BOTH
Exterior lights -----	CHECK
Master switch -----	OFF
Windshield -----	CLEAN
Cargo door -----	CLOSED

**EMPENNAGE**

Horizontal stabilizer -----	INSPECT
Elevator -----	CHECK MOVEMENT
Trim tab -----	INSPECT
Vertical stabilizer -----	INSPECT
Rudder -----	INSPECT
Tail tie down -----	REMOVE

**RIGHT WING**

Flap -----	INSPECT
Aileron -----	CHECK MOVEMENT
Wing tip ----	INSPECT TIP & NAV LIGHT
Leading edge -----	INSPECT
Wing tie down -----	REMOVE
Main wheel tire -----	INSPECT
Fuel sample -----	INSPECT
	(IMPURITIES/COLOR)
Fuel quantity -----	VISUALLY
	INSPECT
Fuel cap -----	SECURE

**NOSE**

Engine oil level -----	MIN 5 QUARTS
Fuel strainer -----	DRAIN 4-SECS
Prop & spinner -----	INSPECT
Alternator belt -----	SECURE
Landing light -----	INSPECT
Carburetor air filter -----	INSPECT
Nose wheel tire -----	INSPECT
Nose wheel strut -----	INSPECT
Static port -----	CLEAR

**LEFT WING**

Fuel -----	VISUALLY INSPECT
Fuel cap -----	SECURE
Pitot tube -----	STOW COVER
	& INSPECT
Fuel vent -----	CLEAR
Stall horn -----	CLEAR
Leading edge -----	INSPECT
Wing tie down -----	REMOVE
Wing tip ----	INSPECT TIP & NAV LIGHT
Aileron -----	CHECK MOVEMENT
Flap -----	INSPECT
Main wheel tire -----	INSPECT
Fuel sample -----	INSPECT
	(IMPURITIES/COLOR)

**OTHER**

Pilot -----	EXPERIENCE, REGENCY,
	& PHYSICAL CONDITION
Aircraft -----	FUEL, PERFORMANCE,
	& EQUIPMENT
Environment --	AIRPORT CONDITIONS
	& WEATHER
I'M SAFE -----	ILLNESS, MEDICATION,
	STRESS, ALCOHOL,
	FATIGUE, EATING

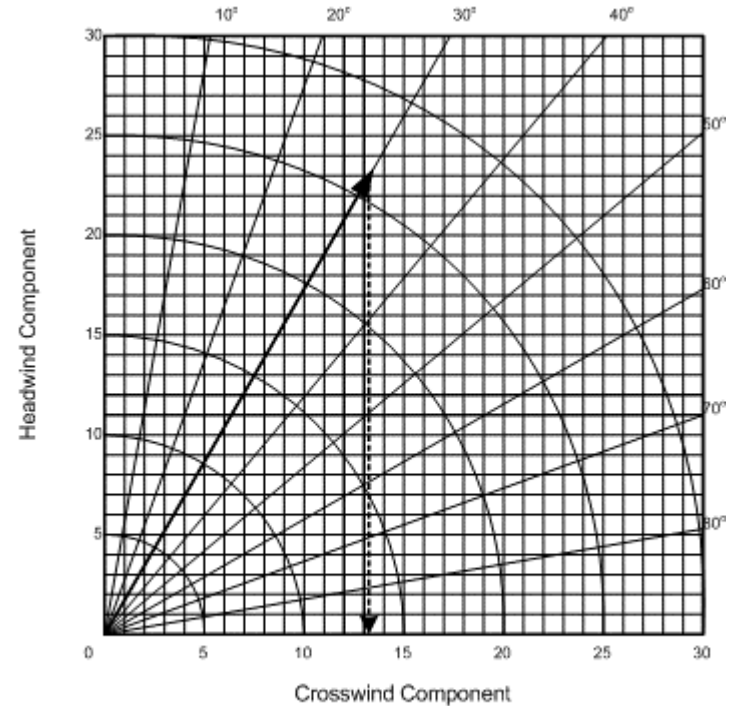
## Local Airport Data

Airport	Frequencies	Bearing / Range from FDW	Pattern	Runways Available
Fairfield (KFDW)	AWOS-3: 119.075 APPR: 133.4 (CAE) CTAF: 123.05	000°M 0 NM	1,400' Left	04 / 22
Columbia Metro (KCAE)	ATIS: 120.15 APPR 110-289: 124.15 APPR 290-109: 133.4 Tower: 119.5 Ground: 121.9	188°M 23 NM	1,300' Left or As directed	05 / 23 & 11 / 29
Columbia Owens (KCUB)	ASOS: 118.675 APPR: 133.4 (CAE) CTAF: 123.075	172°M 21 NM	1,000' Rwy13: Right Rwy31: Left	13 / 31
Woodward Field (KCDN)	AWOS-3: 119.975 APPR: 125.4 (SSC) CTAF: 123.0	102°M 27 NM	1,300' Left	06 / 24 & 14 / 32
Chester (KDCM)	AWOS-3: 120.975 APPR: 120.05 (CLT) CTAF: 122.7	006°M 29 NM	1,800' Rwy05: Right Rwy23: Left Rwy17: Right Rwy35: Left	05 / 23 & 17 / 35
Newberry (KEOE)	AWOS-3: 124.275 APPR: 133.4 (CAE) CTAF: 122.8	276°M 26 NM	1,600' Rwy04: Left Rwy22: Right	04 / 22
Union (35A)	Weather: None APPR: 1194 (GMU) CTAF: 122.7	322°M 35 NM	1,600' Left	05 / 23
Greenwood (KGRD)	ASOS: 121.125 APPR: 120.6 (GMU) CTAF: 122.975	272°M 52 NM	1,600' Left	05 / 23 09 / 27

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## Crosswind Chart



Example: The winds are 30° off the runway heading at 27 KTS. The crosswind component is approximately 13 KTS.

### Transponder Codes:

- 7500 – Hijacking
- 7600 – Lost Comms
- 7700 – Emergency

### Light Gun Signals

Signal	On Ground	In Flight
Steady Green	Clear for Takeoff	Clear to Land
Flashing Green	Clear to Taxi	Return to Land
Steady Red	Stop	Give Way
Flashing Red	Taxi Clear of Rwy	Do Not Land
Flashing White	Return to Ramp	-
Alternating Red & Green	Exercise Extreme Caution	

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## BEFORE START

Preflight inspection ----- COMPLETE  
Passenger briefing ----- COMPLETE  
Seats & seatbelts ----- ADJUSTED  
Fuel selector valve ----- BOTH  
Avionics power switch ----- OFF  
Circuit breakers ----- CHECK IN

## STARTING ENGINE

Mixture ----- RICH  
Throttle ----- OPEN 1/8 INCH  
Carburetor heat ----- OFF  
Beacon ----- ON  
Primer ----- AS REQUIRED, IN & LOCKED

If you are wearing a jacket, it is probably cold enough to prime. Prime no more than twice, then continue with the next step in the checklist. If the aircraft does not start in 8-10 secs, turn off the master switch, wait 30 secs, reprime once, then try again. If it still fails to start, wait 30 secs, do not prime, and try one more time. If it fails to start again, contact maintenance.

Master switch ----- ON  
Propeller area ----- CLEAR  
Ignition switch ----- START (8-10 SECS)  
Oil pressure ----- CHECK  
Throttle ----- 1,000 RPM

## AFTER START

Flaps ----- RETRACTED  
Avionics power switch ----- ON  
Navigation lights ----- ON (IF REQUIRED)  
ATIS/AWOS/ASOS ----- OBTAIN  
Flight instruments ----- CHECK  
Avionics ----- SET  
Transponder ----- ALT  
Taxi ----- CLEARANCE/ANNOUNCE  
Throttle ----- AS REQUIRED  
Brakes ----- TEST

## DESCENT

Mixture ----- ADJUST  
Throttle ----- AS REQUIRED  
CAUTION: AVOID RAPID DESCENTS AT LOW POWER SETTINGS  
Carburetor heat ----- AS REQUIRED  
ATIS/ASOS/AWOS ----- OBTAIN  
Airport information ----- REVIEW

## BEFORE LANDING

Fuel selector valve ----- BOTH  
Mixture ----- RICH  
Seat belts ----- SECURE  
Landing light ----- AS REQUIRED

## LANDING

Airspeed ----- 60-70 KIAS (FLAPS 30°)  
Flaps ----- 30° (OR AS REQUIRED)  
Touchdown ----- MAIN WHEELS FIRST  
Braking ----- MINIMUM

## SHORT FIELD LANDING

Flaps ----- 30°  
Airspeed ----- 61 KIAS  
Touchdown ----- MAX BRAKING ONLY IF REQUIRED  
SIMULATE BY SAYING "MAX BRAKING"  
Flaps ----- RETRACT<sup>1</sup>

## SHORT FIELD TAKEOFF

Flaps ----- 10°  
Brakes ----- APPLY  
Throttle ----- MAX  
Engine gauges ----- CHECK  
Brakes ----- RELEASE  
Rotate ----- 51 KIAS  
Climb speed ----- 56 KIAS (UNTIL OBSTACLES CLEARED)  
Flaps ----- RETRACT (WHEN AIRSPEED ALLOWS)

## SOFT FIELD TAKEOFF (SIMULATED ONLY)

Flaps ----- 10°  
Yoke ----- FULL AFT  
Taxi ----- KEEP OFF BRAKES  
Nose wheel ----- OFF RUNWAY  
Rotate ----- AS SOON AS PRACTICAL  
Accelerate to  $V_x$  or  $V_y$  ----- IN GROUND EFFECT  
Clear of obstacles ----- CLIMB AT  $V_y$  (76 KIAS)  
Flaps ----- RETRACT

## ENROUTE CLIMB

Throttle ----- MAX  
Airspeed ----- 70-85 KIAS  
Mixture ----- RICH (LEAN ABOVE 3,000 FEET)  
Landing light ----- OFF  
Flight plan ----- OPEN (IF REQUIRED)

## CRUISE

Throttle ----- CRUISE THROTTLE SETTING  
Trim ----- SET  
Mixture ----- LEAN

## BEFORE TAKEOFF

Throttle ----- 1,000 RPM  
Flight controls ----- FREE & CORRECT  
Fuel selector valve ----- BOTH  
Elevator trim ----- TAKEOFF  
Mixture ----- RICH  
Throttle ----- 1,700 RPM  
Engine gauges ----- CHECK  
Ammeter ----- CHECK  
Magneto ----- CHECK (125 RPM/50 RPM LOSS)  
Carburetor heat ----- ON  
Throttle ----- IDLE  
Carburetor heat ----- OFF  
Throttle ----- 1,000 RPM  
Flight instruments & radios ----- CHECK & SET  
Transponder ----- ALT  
Takeoff briefing ----- COMPLETE  
Doors & windows ----- CLOSED  
Takeoff time ----- NOTE

## FINAL ITEMS

Fuel selector valve ----- BOTH  
Mixture ----- RICH  
Lights ----- ON

## TAKEOFF

Throttle ----- MAX  
Rotate ----- 55 KIAS  
Centerline ----- MAINTAIN  
Climb speed ----- 70-80 KIAS

## SOFT FIELD LANDING (SIMULATED ONLY)

Flaps ----- 30°  
Airspeed ----- 60–70 KIAS  
Touchdown ----- SLIGHTLY NOSE HIGH  
Nose wheel ----- OFF RUNWAY  
Braking ----- MINIMAL

## GO AROUND

Throttle ----- MAX  
Carburetor heat ----- OFF  
Flaps ----- 20°  
Climb speed ----- 55 KIAS  
Flaps ----- 10° (UNTIL OBSTACLES CLEARED)  
Flaps retract ----- CLEAR OF OBSTACLES, SAFE ALTITUDE, & 60 KIAS

## AFTER LANDING

Runway clear ----- ANNOUNCE  
Flaps ----- RETRACTED  
Carburetor heat ----- OFF  
Transponder ----- ALT  
Landing/taxi light ----- AS REQUIRED

## PARKING

Landing/taxi light ----- OFF  
Avionics power switch ----- OFF  
Navigation light ----- OFF  
Throttle ----- 1,000 RPM  
Mixture ----- IDLE CUT-OFF  
Ignition switch ----- OFF  
Master switch ----- OFF

## ROUGH ENGINE OPS / LOSS OF POWER

### GRADUAL LOSS OF RPM; TROUBLESHOOT FOR: CARB ICING OR FOULED PLUGS

Possible carburetor icing ----- APPLY FULL THROTTLE  
Carburetor heat ----- ON  
Wait ----- UNTIL ENGINE RUNS SMOOTHLY  
IF ENGINE RUNS SMOOTHLY: Carburetor heat ----- OFF  
Note: If continued use of carburetor heat is required for cruise flight, use the minimum amount of carburetor heat required & lean the mixture for smoothest possible engine operation.

IF ENGINE STILL RUNNING ROUGH: POSS SPARK PLUG FOULING  
Ignition ----- QUICKLY SWITCH FROM BOTH TO LEFT TO BOTH  
Ignition ----- QUICKLY SWITCH FROM BOTH TO RIGHT TO BOTH  
If a power loss was noted ----- LEAN MIXTURE FOR CRUISE

### IF ROUGH ENGINE OPS PERSIST AFTER SEVERAL MINUTES

Mixture ----- RICH  
Ignition ----- BOTH  
Land ----- AS SOON AS PRACTICAL

### SUDDEN LOSS OF RPM; TROUBLESHOOT FOR: LOW OIL PRESSURE OR MAGNETO MALFUNCTION

Check ----- OIL PRESSURE  
If oil pressure within limits ----- TROUBLESHOOT MAGNETO  
If low oil pressure ----- CHECK OIL TEMP  
If oil temp is normal ----- LAND AS SOON AS PRACTICAL  
Inspect ----- FOR OIL LEAK  
If oil temp is high ----- PREPARE FOR FORCED LANDING  
Engine power ----- REDUCE & KEEP LOW FOR APPROACH  
Forced landing ----- EXECUTE

### TROUBLESHOOT MAGNETO

Ignition ----- QUICKLY SWITCH FROM BOTH TO LEFT TO BOTH  
Ignition ----- QUICKLY SWITCH FROM BOTH TO RIGHT TO BOTH  
Note ----- WHICH MAGNETO LOST POWER  
Change ----- POWER SETTINGS  
Mixture ----- RICH  
Determine ----- IF FLIGHT WITH BOTH MAGNETOS PRACTICABLE  
If no ----- SWITCH TO THE GOOD MAGNETO  
Land ----- AS SOON AS PRACTICAL

## ABORT TAKEOFF / ENGINE FAILURE DURING TAKEOFF RUN

**Throttle** ----- **IDLE**  
**Brakes** ----- **AS NEEDED**  
 Flaps ----- **RETRACT**  
 Mixture ----- **IDLE CUT-OFF**  
 Ignition switch ----- **OFF**  
 Master switch ----- **OFF**

## ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

**Airspeed** ----- **BEST GLIDE 65/60 KIAS (FLAPS RET./EXT.)**  
**Best landing field** ----- **SELECT**  
 Mixture ----- **IDLE CUT-OFF**  
 Fuel selector valve ----- **OFF**  
 Flaps ----- **AS REQUIRED**  
 Master switch ----- **OFF**  
 Doors ----- **UNLATCH PRIOR TO TOUCHDOWN**

## ENGINE FAILURE DURING FLIGHT

**Airspeed** ----- **BEST GLIDE (65 KIAS)**  
**Best landing field** ----- **SELECT**  
 Carburetor heat ----- **ON**  
 Fuel selector valve ----- **BOTH**  
 Mixture ----- **RICH**  
 Ignition switch ----- **BOTH (START IF PROPELLER STOPPED)**  
 Primer ----- **IN & LOCKED**  
 Forced landing ----- **EXECUTE**

## SECURING AIRPLANE

TACH/HOBBS meters ----- **RECORD**  
 Control lock ----- **INSTALL**  
 Pitot tube cover ----- **INSTALL**  
 Trash ----- **REMOVE**  
 Tie downs ----- **SECURE**  
 Doors/windows ----- **CLOSED & LOCKED**  
 Flight plan ----- **CLOSE**

## FOOTNOTES

Footnote 1: Immediately after touchdown, lower the nose wheel and apply heavy braking as required. For max brake effectiveness, retract the flaps, hold the control wheel full aft and apply max brake pressure without sliding the tires.

Footnote 2: All bold face items in the emergency procedures checklists are critical action procedures (CAPs). All pilots should commit these CAPs to memory to maximize the likelihood of a safe outcome of an emergency.

## FORCED LANDING: EMERGENCY LANDING WITHOUT ENGINE POWER

Airspeed ----- 65/60 KIAS (FLAPS RET./EXT.)  
 Mixture ----- IDLE CUT-OFF  
 Fuel selector valve ----- OFF  
 Ignition switch ----- OFF  
 Flaps ----- AS REQUIRED (30° RECOMMENDED)  
 Radios ----- 121.5 & SQUAWK 7700 (IF ALTITUDE PERMITS)  
 Master switch ----- OFF  
 Doors ----- UNLATCH PRIOR TO TOUCHDOWN  
 Touchdown ----- SLIGHTLY TAIL LOW  
 Brakes ----- APPLY HEAVILY

## FORCED LANDING: PRECAUTIONARY LANDING WITH ENGINE POWER

Flaps ----- 20°  
 Airspeed ----- 60 KIAS  
 Selected field ----- OVERFLY, NOTE TERRAIN & OBSTACLES,  
 RETRACT FLAPS AT SAFE ALTITUDE & AIRSPEED  
 Avionics power & electrical switches ----- OFF  
 Flaps ----- 30° ON FINAL APPROACH  
 Airspeed ----- 60 KIAS  
 Master switch ----- OFF  
 Doors ----- UNLATCH PRIOR TO TOUCHDOWN  
 Touchdown ----- SLIGHTLY TAIL LOW  
 Ignition switch ----- OFF  
 Brakes ----- APPLY HEAVILY

## ELECTRICAL FIRE IN FLIGHT

Master switch ----- OFF  
 Avionics power switch ----- OFF  
 All other switches (except ignition switch) ----- OFF  
 Vents/cabin air/heat ----- CLOSED  
 Fire extinguisher ----- ACTIVATE (IF AVAILABLE)

### WARNING

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

If fire appears out and electrical power is necessary for continuance of flight:

Master switch ----- ON  
 Circuit breakers ----- CHECK FOR FAULTY CIRCUIT, DO NOT RESET  
 Radio switches ----- OFF  
 Avionics power switch ----- ON  
 Radio/electrical switches ----- ON ONE AT A TIME, WITH DELAY AFTER  
 EACH UNTIL SHORT CIRCUIT LOCALIZED  
 Vents/cabin air/heat ----- OPEN IF FIRE COMPLETELY EXTINGUISHED

## INADVERTENT ICING ENCOUNTER

Pitot heat ----- ON  
 Altitude/heading ----- CHANGE TO LEAVE ICING CONDITIONS  
 Cabin heat & defroster ----- MAX  
 Throttle ----- INCREASE TO MINIMIZE ICE BUILDUP ON PROPELLER  
 Carburetor heat ----- AS NEEDED  
 Mixture ----- LEAN FOR PEAK RPM  
 Find - EMERGENCY LANDING FIELD (IF FORCED LANDING NECESSARY)  
 Approach speed ----- INCREASE  
 Flaps ----- LEAVE RETRACTED  
 Landing ----- PERFORM FORWARD SLIP FOR IMPROVED VISIBILITY  
 Approach speed ----- 65 TO 75 KIAS  
 Landing ----- PERFORM AT A LEVEL ATTITUDE

## ENGINE FIRE IN FLIGHT

Mixture ----- IDLE CUT-OFF  
Fuel selector valve ----- OFF  
Master switch ----- OFF  
\* IF FIRE CONTINUES  
Cabin heat & air ----- OFF (EXCEPT OVERHEAD VENTS)  
Airspeed ----- 100-110 KIAS  
If fire is not extinguished ----- INCREASE GLIDE SPEED TO FIND AN  
AIRSPEED WHICH WILL PROVIDE AN INCOMBUSTIBLE MIXTURE  
Forced landing ----- EXECUTE

## CABIN FIRE

Master switch ----- OFF  
Vents/cabin air/heat ----- CLOSED  
Fire extinguisher ----- ACTIVATE (IF AVAILABLE)

### WARNING

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

Land ----- AS SOON AS POSSIBLE

## WING FIRE

Landing/taxi light switches ----- OFF  
Navigation light switch ----- OFF  
Pitot heat switch ----- OFF  
Sideslip ----- PERFORM (TO KEEP FLAMES  
AWAY FROM CABIN & FUEL TANK)

## FORCED LANDING: DITCHING

Radio ----- TRANSMIT MAYDAY ON 121.5 & SQUAWK 7700  
Heavy objects in baggage area ----- SECURE OR JETTISON  
Approach ----- HIGH WINDS, HEAVY SEAS – INTO THE WIND  
LIGHT WINDS, HEAVY SWELLS – PARALLEL TO SWELLS  
Flaps ----- 20° TO 30°  
Power ----- ESTABLISH 300FT/MIN DESCENT AT 55 KIAS  
NOTE: If no power is available, approach at 65 KIAS with flaps retracted or  
at 60 KIAS with 10° flaps.  
Cabin doors ----- UNLATCH  
Touchdown ----- LEVEL ATTITUDE AT ESTABLISHED DESCENT RATE  
Face ----- CUSHION AT TOUCHDOWN  
Airplane ----- EVACUATE  
Life vests & raft ----- INFLATE

## STATIC SOURCE BLOCKAGE

Alternate static source valve ----- PULL ON  
Airspeed ----- CONSULT POH CALIBRATION TABLES IN SECTION 5

## LANDING WITH A FLAT MAIN TIRE

Approach ----- NORMAL  
Touchdown --- GOOD TIRE FIRST, HOLD OFF FLAT TIRE AS LONG AS POSSIBLE

## FIRE DURING START ON GROUND

Cranking ----- CONTINUE, TO GET A START  
If engine starts:  
Power ----- 1,700 RPM FOR A FEW MINUTES  
Engine ----- SHUTDOWN AND INSPECT FOR DAMAGE  
If engine fails to start:  
Throttle ----- FULL OPEN  
Mixture ----- IDLE CUT-OFF  
Cranking ----- CONTINUE  
Fire extinguisher --- OBTAIN (CALL FOR GROUND ATTENDANT SUPPORT)  
When support arrives ----- RELEASE STARTER SWITCH  
Master switch ----- OFF  
Ignition switch ----- OFF  
Fuel selector valve ----- OFF  
Fire ----- EXTINGUISH  
Fire damage ----- INSPECT



## AMMETER SHOWS EXCESSIVE RATE OF CHARGE

Alternator ----- OFF  
Alternator circuit breaker ----- PULL  
Nonessential electrical equipment ----- OFF  
Flight ----- TERMINATE AS SOON AS PRACTICAL

## LOW-VOLTAGE LIGHT ILLUMINATES DURING FLIGHT

Avionics power switch ----- OFF  
Alternator circuit breaker ----- CHECK IN  
Master switch ----- OFF (BOTH SIDES)  
Master switch ----- ON  
Low-voltage light ----- CHECK OFF  
Avionics power switch ----- ON

If low-voltage light illuminates again:

Alternator ----- OFF  
Nonessential radio & electrical equipment ----- OFF  
Flight ----- TERMINATE AS SOON AS PRACTICAL

## DISORIENTATION IN THE CLOUDS

Transition to ----- INSTRUMENTS  
Perform ----- 180° STANDARD RATE TURN TO EXIT CLOUDS

### IF STILL DISORIENTED IN THE CLOUDS

Contact ----- ATC (USE 121.5 IF NECESSARY)  
Request ----- VECTORS TO BETTER WEATHER, SAFE ALTITUDE,  
CLOSEST EMERGENCY LANDING FIELD, OR OTHER OPTIONS  
Prepare for ----- OFF FIELD LANDING

## SPIN RECOVERY

**Power ----- THROTTLE TO IDLE**  
**Ailerons ----- NEUTRAL**  
**Rudder ----- FULL OPPOSITE SPIN DIRECTION & HOLD**  
**Elevator ----- YOKE FULL FORWARD & HOLD UNTIL ROTATION STOPS**  
**When rotation stops ----- RECOVER FROM DIVE**

