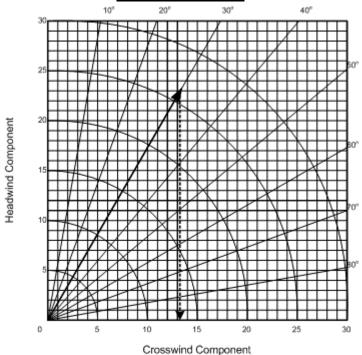


Cessna 172 P Checklist

Airspeeds (KIAS)		
V _R 55		
Vx 60		
V _Y 76		
V _{S1} 44		
V _{S0} 33		
V _{FE} 110 (10 ^o Flaps)		
85 (20° & 30° Flaps)		
V _A 99 (2,400 lbs.) 92 (2,000 lbs.)		
82 (1,600 lbs.)		
V _{NE} 158		
Short field takeoff (Flaps 10°) Rotate - 51		
Climb (until clear of obstacles) - 56		
Normal approach 65-75 (Flaps Retracted)		
60-70 (Flaps 30 ^o)		
Short field approach 61 (Flaps 30°)		
Best glide 65 Maximum crosswind 15		
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.		
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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.

<u>Transponder Codes:</u> 7500 – Hijacking 7600 – Lost Comms 7700 - Emergency

Light Gun Signals

	<u>=:3::: </u>	
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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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 ^o 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 ^o 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 ^o M 27 NM	1,300' Left	06 / 24 & 14 / 32
Chester (KDCM)	AWOS-3: 120.975 APPR: 120.05 (CLT) CTAF: 122.7	006 ^o 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 ^o M 26 NM	1,600' Rwy04: Left Rwy22: Right	04 / 22
Union (35A)	Weather: None APPR: 1194 (GMU) CTAF: 122.7	322 ^o M 35 NM	1,600' Left	05 / 23
Greenwood (KGRD)	ASOS: 121.125 APPR: 120.6 (GMU) CTAF: 122.975	272 ^o M 52 NM	1,600' Left	05 / 23 09 / 27

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 ⁰
Fuel selector valve BOTH
Exterior lights CHECK
Master switch OFF
Windshield CLEAN
Cargo door CLOSED

EMPENNAGE

Horizontal stabilizer	INSPECT
Elevator CHECK MC	VEMENT
Trim tab	INSPECT
Vertical stabilizer	INSPECT
Rudder	INSPECT
Tail tie down	REMOVE

RIGHT WING

<u> </u>
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 Fuel strainer Prop & spinner Alternator belt Landing light Carburetor air filter Nose wheel tire Nose wheel strut	DRAIN 4-SECS INSPECT SECURE INSPECT INSPECT INSPECT
Nose wheel strut Static port	INSPECT

LEFT WING

Fuel VISUALLY INSPECT
Fuel cap SECURE
Pitot tube STOW COVER
& INSPECT
Fuel vent CLEAR
Stall horn CLEAR
Leading edgeINSPECT
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

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I'M SAFE ---- ILLNESS, MEDICATION, STRESS, ALCOHOL, FATIGUE, EATING

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BEFORE START

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

STARTING ENGINE

Mixture RICH
Throttle OPEN 1/8 INCH
Carburetor heat OFF
Beacon ON
PrimerAS 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	OBTAIŃ
Flight instruments	CHECK
Avionics	SET
Transponder	ALT
Тахі	
Throttle	AS REQUIRED
Brakes	

BEFORE TAKEOFF

Throttle Flight controls Fuel selector valve	FREE & CORRECT
Elevator trim	
Mixture	RICH
Throttle	
Engine gauges	CHECK
Ammeter	CHECK
Magnetos	CHECK (125 RPM/50 RPM LOSS)
Carburetor heat	ON
Throttle	IDLE
Carburetor heat	OFF
Throttle	
Flight instruments & radios	
Transponder	
Takeoff briefing	COMPLETE
Doors & windows	CLOSED
Takeoff time	NOTE

FINAL ITEMS

Fuel selector valve	BOTH
	RICH
	ON
LIGHTS	

TAKEOFF

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

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5.

SHO	RT FIELD TAKEOFF
Brakes Throttle Engine gauges Brakes Rotate Climb speed	
	AKEOFF (SIMULATED ONLY)
Flaps Yoke	10° FULL AFT
	KEEP OFF BRAKES

ENROUTE CLIMB

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

Throttle	MAX
Airspeed	70–85 KIAS
Mixture	
Landing light	,
Flight plan	

CRUISE

Throttle	CRUISE THROTTLE SETTING
	SET
Mixture	LEAN

SHORT FIELD LANDING

Touchdown ------ MAIN WHEELS FIRST Braking ------ MINIMUM

	30°
Airspeed	61 KIAS
Touchdown	MAX BRAKING ONLY IF REQUIRED
	SIMULATE BY SAYING "MAX BRAKING"
Flaps	RETRACT ¹

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SOFT FIELD LANDING (SIMULATED ONLY)

Flaps	30°
Airspeed	
Touchdown	
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 OBS	TACLES, SAFE ALTITUDE, & 60 KIAS

AFTER LANDING

Runway clear	ANNOUNCE
Flaps	RETRACTED
	OFF
Transponder	ALT
	AS REQUIRED

PARKING

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

SECURING AIRPLANE

TACH/HOBBS meters	RECORD
Control lock	
Pitot tube cover	
Trash	
Tie downs	_
Doors/windows	
Flight plan	CLOSE

FOOTNOTES

<u>Footnote 1</u>: 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.

<u>Footnote 2</u>: 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.

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9.

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 BE	ST GLIDE 65/60 KIAS (FLAPS RET./EXT.)
Best landing field	SELECT
Mixture	IDLE CUT-OFF
Fuel selector valve	OFF
Flaps	AS REQUIRED
	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

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 pressureCHECK OIL TEMP
If oil temp is normal LAND AS SOON AS PRACTICAL
InspectFOR OIL LEAK
If oil temp is high PREPARE FOR FORCED LANDING
Engine power REDUCE & KEEP LOW FOR APPROACH
Forced landing EXECUTE
TDOUBLE CHOOT MACNETO
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

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°
	60 KIAS
Selected field C	OVERFLY, NOTE TERRAIN & OBSTACLES,
RETRACT	FLAPS AT SAFE ALTITUDE & AIRSPEED
Avionics power & electrical switch	es 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

13.

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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 ^o 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
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ENGINE FIRE IN FLIGHT

Mixture IDLE CUT-OFF
Fuel selector valve OFF
Master switch OFF
* <u>IF FIRE CONTINUES</u>
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	
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)

ELECTRICAL FIRE IN FLIGHT

Master switch
<u>WARNING</u>
After discharging an extinguisher within a closed cabin, ventilate the cabin.
If fire appears out and electrical power is necessary for continuance of flight:
Mostor switch ON

INADVERTENT ICING ENCOUNTER

Vents/cabin air/heat ----- OPEN IF FIRE COMPLETELY EXTINGUISHED

Circuit breakers ----- CHECK FOR FAULTY CIRCUIT, DO NOT RESET

Avionics power switch ------ ON Radio/electrical switches ----- ON ONE AT A TIME, WITH DELAY AFTER

EACH UNTIL SHORT CIRCUIT LOCALIZED

16.

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

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AMMETER SHOWS EXCESSIVE RATE OF CHARGE

Alternator	OFF
	PULL
	OFF
	TERMINATE AS SOON AS PRACTICAL
Flight	TERMINATE AS SOON AS PRACTICAL

LOW-VOLTAGE LIGHT ILLUMINATES DURING FLIGHT

Avionics power switch Alternator circuit breaker Master switch Master switch Low-voltage light Avionics power switch	CHECK IN OFF (BOTH SIDES) ON CHECK OFF
If low-voltage light illuminates again:	
Alternator Nonessential radio & electrical equipment Flight TERMINA	OFF

DISORIENTATION IN THE CLOUDS

	on to INSTRUMENTS 180° STANDARD RATE TURN TO EXIT CLOUDS
1 01101111	IF STILL DISORIENTED IN THE CLOUDS
	ATC (USE 121.5 IF NECESSARY) t VECTORS TO BETTER WEATHER, SAFE ALTITUDE,
Prepare	CLOSEST EMERGENCY LANDING FIELD, OR OTHER OPTIONS for OFF FIELD LANDING

SPIN RECOVERY

Power Th	IROTTLE TO IDLE
Ailerons	NEUTRAL
Rudder FULL OPPOSITE SPIN DI	RECTION & HOLD
Elevator YOKE FULL FORWARD & HOLD UNTIL F	ROTATION STOPS
When rotation stops REC	OVER FROM DIVE

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17.