



Cessna 172D Checklist

BEFORE STARTING CHECK

Review plan of action

Passengers	Briefed
Seat	Adjust/locked
Seatbelts	Secure
Circuit breakers	In
Fuel	Both
Mixture	Cut-off
Throttle	Idle
Doors	Closed/latched

STARTING

Mixture	Rich
Throttle	Open ½"
Carb heat	Cold
Strobe/beacon	On
Fuel Primer * (see below for cold weather)	As required
Prop Area	Clear
Master Switch	On
Ignition	Starter engage
Throttle	1200 RPM "+ Amp"
Oil pressure	Check

Cold Weather Operation

Primer	Recharge for priming after start
After Start	Prime as required until smooth running
Throttle	Adjust for 1200-1500 for approx. 1 min.

Flooded Start

Mixture	Off
Throttle	Full
Starter	Engage
<i>*Engine should start and then stop. Return to item 1 of STARTING checklist and continue.</i>	

AFTER START (flow then verify)

Engine gauges	Green
Ammeter	Positive
Mixture	Lean ½"
Radios	Check
Frequencies	Set
Weather	Listen

PRE-TAXI CHECK

Flight Instruments (say Brief*)	Check, set
Comm 1	Active
Volume	Set
Frequencies	Verified
Nav frequencies	Set
(GPS)	Plug In & Set
Transponder	Check Stby
Lights	Only Beacon
Parking brake	Off
Announce "clear left, straight, right"	
Brakes	Test

Flight Instrument Brief

- Airspeed inactive
- Attitude inline with horizon
- Altimeter within 75ft of fld elevation
- Turn Coord. Level, ball centered
- Heading Indicator aligned with compass
- Compass swinging freely
- Vertical Speed indicator at zero point

BEFORE TAKEOFF CHECK

Brakes	Apply and hold
Throttle	1000 RPM
Doors/windows	Locked, light off
Flight controls	Free, correct
Fuel	Both
Flaps	Up or 10°
Trim	T/O
Mixture	Best Power
Throttle (hand stays on)	1600 RPM
Suction	4 - 6
Ammeter	Positive
Magnetos	Right, then Left 125/50
Gauges	Green
Carb Heat	On
Throttle	Check Idle
Throttle	1200 RPM
Flight instruments	Check and set
Radios/NAVAIDS	Set
Lights/strobes	As required
Transponder	Alt
Wind sock	Check
Departure Plan	Captain Brief*

(Review by flow after crossing hold short line)

Mixture	Rich
Flaps	Up or 10°
Fuel	On
Lights	On
Ammeter	Check Breaker

Captain Brief

- Engine failure/abnormality **before Vr**: power idle, stop straight ahead
- Engine failure/abnormality **after Vr, but before 1000'AGL**: **push** for 75mph, land straight ahead
- Engine failure/abnormality **after 1000'AGL**: **push** for 75mph, may proceed back towards airport if conditions and performance permit.

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CRUISE CHECK

Throttle	Set 2300-2500
Mixture	Leaned
Heading Indicator	Check
Engine Gauges	Green
Lights	Beacon Only
Ammeter	Check Breaker

PRE-MANEUVER

Clearing Turns	Perform
Emerg. Landing Area	Confirm
Mixture	Best Power
Fuel	Both
Lights	Beacon Only

DESCENT CHECK

Seatbelts	Secure
Carb Heat	As required
Radios	Set
Weather	Briefed
Runway/traffic pattern	Entry reviewed

LANDING CHECK

Mixture	Best Power
Carb Heat	On
Lights	As required
Flaps	As required

AFTER LANDING CHECK

Flaps	Up
Mixture	Lean 1/2"
Carb Heat	Off
Lights/strobes	Beacon Only
Transponder	Check Stby
Ground control (towered)	As Required

SECURING AIRPLANE CHECK

Throttle	Idle
Electrical equip	Off
Mixture	Idle cut-off
Magnetos	Off
Master switch	Off
Fuel	Left or Right

RESTART IN FLIGHT

PROP WINDMILLING		PROP STOPPED	
Airspeed	75mph	Airspeed	75mph
Mixture	Rich	Mixture	Rich
Fuel valve	Both	Fuel valve	Both
Carb Heat	On	Electrical Equipment	Off
Ignition Switch	Both	Master Switch	On
Fuel primer	In and Locked	Throttle	3/4" open
Throttle	3/4" open	Ignition switch	Start
AFTER RESTART			
Oil pressure		Check	
Oil temperature		Check	
Electrical Equipment		On, if required	

EMERGENCY LANDING (ENGINE OFF)

Airspeed	
Flaps UP	75 MPH
Flaps Down	70 MPH
Ignition switch	Off
Mixture	Cut-off
Fuel valve	Off "Reverse"
Radio (121.5)	Call
Transponder	7700
Flaps	As required
Master switch	Off, after flaps
Seatbelts	Secured
Doors	Unlatch
Brakes	After touchdown

ROUGH ENGINE (IN FLIGHT)

Mixture	Rich
Fuel valve	Both
Carb Heat	On
Ignition switch	L-Both, R-Both

ENGINE FIRE (IN FLIGHT)

Mixture	Off
Fuel valve	Off "Reverse"
Master Switch	Off
Cabin heat/air	Off
Speed	120 MPH
Emergency Landing	Execute

ENGINE FIRE (ON GROUND)

CRANKING:	Continue to get a start
IF ENGINE STARTS:	Power at 1700 rpm for a few minutes and then shut down and inspect for damage.
IF NO START:	
Fuel valve	Closed "Reverse"
Cabin heat	Off
Mixture	Cut-off
Master switch	Off
Ignition off	Off
Passengers	Evacuate

ELECTRICAL FIRE (IN FLIGHT)

Master Switch	Off
All Switches (except ignition)	Off
Vents/Cabin Air/Heat	Off
Fire Extinguisher	Activate
• If fire appears out and electrical power necessary	
For continuance of flight:	
Master	On
Circuit Breakers	Check (don't reset)
Radio/Electrical switches	On (one at a time/delay)
Vent/Cabin Air/Heat	Open (if extinguished)
Land	ASAP

CABIN FIRE

Master Switch	Off
Vents/Cabin Air/Heat	Off
Fire Extinguisher	Activate
Land	ASAP

SPEED REFERENCE

<u>TAKEOFF AND CLIMB</u>	
V _R	60 MPH
V _Y	80 MPH
V _X	65 MPH
V _A	112 MPH
Best Glide	75 MPH
V _{SO}	49 MPH
V _{S1}	57 MPH
<u>LANDING</u>	
Normal	75 MPH
Short field	65 MPH