Cessna 172

Preflight Inspection Cockpit

Aircraft docs (ARROW) Check Weight & Balance Check Parking Brake Set Gust lock & throttle lock Remove Hobbs/Tach Check/Remove Ignition Off Avionics Power Switch Off Master Switch On Fuel quantity indicators Check Pitot Heat On Avionics Power Switch On Avionics Cooling Fan **Audible Annunciator Panel Switch Test** Annunciator's Illuminate Check Avionics Power Switch Off Static Pressure Alt Src Valve Off **Flaps Extend** Liahts on Check/off Pitot tube **Uncover and Check** Pitot Heat Off Master Switch Off Fuel shutoff valve On (Both)

Fuselage and Empenage

Baggage Door Closed & Locked
Fuselage/Rivets Check
Tail Tie-Down
Control surfaces
Trim Tab Check Security
Antennas Closed & Locked
Check
C

Right wing

Wing tie-down **Disconnect** Aileron Free and Secure **Flaps** Secure Main wheel tire Inflated/Cond **Brakes Not Leaking** Fuel tank sump Sample **Fuel Quantity** Check Fuel Filler cap Secure

Nose

Engine oil level

Fuel strainer

Propeller and spinner

Alternator belt

Check

Check

Check

Check

Preflight

Air intake
Carburetor air filter
Landing lights
Check/Off
Nose wheel strut & tire
Nose-Tie down
Static source opening
Check

Left Wing

Wing tie-down Disconnect Aileron Free and Secure Flaps Secure Main wheel tire Inflated/Cond Brakes **Not Leaking** Fuel tank vent open Check Fuel tank sump Sample **Fuel Quantity** Check Fuel Filler cap Secure Stall warning Check Landing/Taxi Light(s) Clean/Cond

Before starting engine

Preflight inspection Complete Psngr Brief (SAFETY) Complete Seats, belts **Adjust & Lock** Doors Closed & Locked Brakes (Both sides) Test & Set Circuit breakers Check In Electrical Equip/Autopilot Off Avionics Power Switch Off Fuel Selector Valve **Both**

Starting Engine

Open 1/4 inch Throttle Mixture Rich (IN) Cold (IN) Carb heat As required (3); locked Prime Propeller area Clear Master Switch On Beacon On Hold brakes, Ignition Start Throttle Adjust 1200 rpm Oil Pressure **Check normal** Avionics Power Switch On Radios On Transponder **Altitude Flaps** Up Ammeter Check Heading Indicator Set ATIS/AWOS/ASOS Obtain

Cessna 172

Altimeter Set
Dpart &Taxi Clearance Contact
Lean to Taxi

Before Takeoff

Throttle 1200 rpm Parking brake Set Closed & Locked Cabin doors Seats, belts **Adjust & Lock** Flight controls Free & Correct Instruments (4) Set **Fuel Quantity** Check Mixture Rich (IN) Fuel Selector Valve **Both** Elevator Trim Set for TAKEOFF Throttle 1700 rpm Magnetos DROP <100 Check Suction gage Check **Engine Instruments** Check Check Ammeter **Set for Density Alt** Mixture On/OFF Carb heat Throttle **IDLE** Throttle Friction Lock **Adiust** Carb heat On/OFF Throttle 1200 rpm Radios/Avionics Set Autopilot Off Set for Takeoff (00-100) Flaps Parking Brake Release Closed Windows

Takeoff

Uр Flaps Carb heat Cold (In) **Altitude** Transponder Trim set for TAKEOFF **Take off Clearance** Throttle Full Tach, oil, airspeed Check Elevator Lift at 60 KIAS **80 KIAS** Climb

In Flight

Cruise			
Pitch	Set		
Throttle	As required		
Trim	Set		
Mixture	Adjust		

Pre-landing checklist

Fuel selector OnBoth
Seatbelts Fastened
Mixture Rich
Carb Heat On

Approach

Flight instruments
Radios
Checked
ATIS
Checked
Carb Heat
On (Out)
Mixture
Landing light
Airspeed
Corb KIAS (Flaps Up)
60-70 KIAS (Flaps Dn)

After landing

Flaps Up
Carb Heat Cold (In)
Transponder
Landing light
Lean to Taxi
Up
Cold (In)
Leave on Altitude
Off

Parking

Avionics Off
Electrical (white) Off
Throttle 1200 RPM
Mixture Cut-off
Ignition switch Off
Master switch Off

Securing the aircraft

Control Lock/Throttle lock
Hobbs/Tach
Door/Window
Pitot Tube Cover
Tie-downs

Install
Secure
Secure
Secure

Freq	2I0 EVV	HVC Campbell
Appch	124.025	118.1
AWOS	126.475	132.575
CTAF	122.7	122.8

Procedures

Short field take-off

Take-off checklist Complete Taxi Max runway **Brakes** Set and hold 10° Flaps Throttle **Full Brakes** Release Climb **57 KIAS** Flaps Retract when clear **67 KIAS** Airspeed

Short field landing

Pre-landing check Complete Approach 62 KIAS Flaps 30° Throttle Maintain glide Touchdown **Power Off** Flaps Uр Elevator Full up Braking Heavy as required

Soft field take-off

Take-off checklist Complete
Flaps 10°
Taxi keep rolling
Climb 54 KIAS
Flaps retract
Airspeed 67 KIAS

Soft field landing

Pre-landing check Complete 1500 RPM Throttle 30° Flaps 60 KIAS Airspeed Touchdown Main first, softly Landing roll Nose wheel up Elevator Uр **Braking** As required

Go-around

	-
Throttle	Full
Carb Heat	Cold (In)
Flaps	20 °
Climb	55 KIAS
Flaps	10°
Climb	60 KIAS
Flaps	Up

Emergency

Climb >60 KIAS

Engine failure

TAKEOFF

Throttle Idle
Brakes Apply
Flaps Retract
Mixture IDLE cut-off
Ignition Off
Master switch Off

AFTER TAKEOFF

Airspeed

70 KIAS (flaps UP)

65 KIAS (flaps DN)
Mixture Idle Cut-off
Fuel shutoff valve
Ignition Off
Flaps As Required
Master switch
Cabin Doors Unlatch
Land Straight Ahead

DURING FLIGHT

Airspeed 65 KIAS LOOK FOR A FIELD

Fuel shutoff valve
Fuel selector valve
Aux Fuel Pump Switch
Primer
In & Locked
Mixture
Rich
Ignition
BOTH (or START)

Airspeed 70 KIAS (flaps UP) 65 KIAS (flaps DN)

Idle Cut-off Mixture Off (Out) Fuel shutoff valve Ignition Off **Flaps** As Required Transmit 121.5 Mavdav Squawk 7700 Mayday Master switch Off Cabin Doors Unlatch Touchdown **Tail Low**

Carburetor Icing

Throttle Full
Carb Heat On (Out)
Mixture Adjust

Engine Roughness

Magnetos Check

Emergency

Mixture Lean as necessary

Engine Fire during start

Crank Continue
Power 1700 RPM (2 min)
Engine Shut down and inspect

Engine Fire during flight

Electrical failure

Load meter Verify
Alternator Off
Reduce load to minimum
Breaker/alt Check & Rest
Alternator On

Alternator On

If still no power:

Alternator Off

Reduce load and land

Electrical overload

Master Switch Off
Master Switch On
Over-voltage light Off
or TERMINATE flight ASAP

Spin Recovery

Ailerons NEUTRAL
Throttle IDLE
Rudder Full opposite
Control wheel Full forward
Rudder control/wheel Neutral
Pitch Level

Reference

V-Speeds (KIAS)

Normal Climb (Max angle (Sea Level) Max angle (10,000 ft) Climb rate (Sea Level) Climb rate (10,000 ft) Maneuver Flaps Normal max Never exceed	Dut	VcImb Vx Vx Vy Vy Va	50-85 62 67 80 70-80
(Sea Level) Max angle (10,000 ft) Climb rate (Sea Level) Climb rate (10,000 ft) Maneuver Flaps Normal max		V _x V _y V _y	67 80 70-80
Max angle (10,000 ft) Climb rate (Sea Level) Climb rate (10,000 ft) Maneuver Flaps Normal max		V _y	80 70-80
(10,000 ft) Climb rate (Sea Level) Climb rate (10,000 ft) Maneuver Flaps Normal max		V _y	80 70-80
Climb rate (Sea Level) Climb rate (10,000 ft) Maneuver Flaps Normal max		V _y	70-80
(Sea Level) Climb rate (10,000 ft) Maneuver Flaps Normal max		V _y	70-80
Climb rate (10,000 ft) Maneuver Flaps Normal max			
(10,000 ft) Maneuver Flaps Normal max			
Maneuver Flaps Normal max		V.	05.405
Flaps Normal max		W.	0- 40-
Normal max		v a	85-105
		V _{fe}	85
Never exceed		V _{no}	127
110101 OXCCCC		Vne	158
Stall (clean)		Vs	50
Stall (land)		Vso	40
Final Fla	Flaps		60-70
Approach No	No flaps		65-75
Max Glide			68

Light Signals:					
Signal	On Ground	In Flight			
Steady Green	Takeoff	Land			
Flashing Green	Taxi	Return to land			
Steady Red	Stop	Give way			
Flashing Red	Clear runway	Do not land			
Flashing white	Return to ramp				
Red/Green alternating	WARNING – USE CAUTION				

Delta **E**cho Foxtrot Golf **H**otel India **J**uliet Kilo Lima Mike November Oscar Papa Quebec Romeo **S**ierra **T**ango **U**niform **V**ictor Whiskev **X**ray Yankee

Zulu

Alpha

Bravo

Charlie

Procedures Emergency Emergency Reference

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