Cessna 172

Preflight Inspection Cockpit

Aircraft doce / ADL	
Aircraft docs (ARF	
Weight & Balance	Check
Parking Brake	Set
Control wheel lock	
Hobbs/Tach	Check/Remove
Ignition	Off
Avionics Power Sv	
Master Switch	On
Fuel quantity indic	
Pitot Heat	On
Avionics Master S	
Avionics Cooling F	
Avionics Master S	
Static Pressure Al	
Annunciator Pane	
Annunciator's Illun	
Annunciator Pane	
Flaps	Extend
Pitot Heat	Off
Master Switch	Off
Pitot Tube	Test for Heat
Fuel shutoff valve	On (In)
Fuselage and	d Empenage
Deggere Deer A	
Баggage Door C	osed & Locked
Rivets	losed & Locked Check
	losed & Locked Check
Rivets	losed & Locked Check
Rivets Rudder Gust Lock	losed & Locked Check Remove
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces	osed & Locked Check Remove Disconnect Free & Secure
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab	osed & Locked Check Remove Disconnect
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab	osed & Locked Check Remove Disconnect Free & Secure Check Security Check Security
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab Antennas	osed & Locked Check Remove Disconnect Free & Secure Check Security Check Security
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab Antennas Right Wing tie-down	osed & Locked Check Remove Disconnect Free & Secure Check Security Check Security wing
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab Antennas Right Wing tie-down Aileron	osed & Locked Check Remove Disconnect Free & Secure Check Security Check Security wing Disconnect
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab Antennas Right Wing tie-down	losed & Locked Check Remove Disconnect Free & Secure Check Security Check Security wing Disconnect ree and Secure
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab Antennas Right Wing tie-down Aileron F Flaps	losed & Locked Check Remove Disconnect Free & Secure Check Security Check Security wing Disconnect ree and Secure Secure
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab Antennas Right Wing tie-down Aileron F Flaps Main wheel tire Brakes	losed & Locked Check Remove Disconnect Free & Secure Check Security Check Security Wing Disconnect ree and Secure Secure Inflated/Cond
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab Antennas Right Wing tie-down Aileron F Flaps Main wheel tire Brakes Fuel tank sump	losed & Locked Check Remove Disconnect Free & Secure Check Security Check Security Wing Disconnect ree and Secure Secure Inflated/Cond Not Leaking
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab Antennas Right Wing tie-down Aileron F Flaps Main wheel tire Brakes	losed & Locked Check Remove Disconnect Free & Secure Check Security Check Security Wing Disconnect ree and Secure Secure Inflated/Cond Not Leaking Sample
Rivets Rudder Gust Lock Tail Tie-Down Control surfaces Trim Tab Antennas Right Wing tie-down Aileron F Flaps Main wheel tire Brakes Fuel tank sump Fuel Quantity	losed & Locked Check Remove Disconnect Free & Secure Check Security Check Security Wing Disconnect ree and Secure Secure Inflated/Cond Not Leaking Sample Check Secure

Engine oil level

Propeller and spinner

Fuel strainer

Check

Sample Check

Preflight

I I CINg	111
Alternator belt	Check
Air intake	Check
Carburetor air filter	Check
Landing lights	Check
Nose wheel strut & tire	
	Disconnect
Static source opening	Check
Left Win	g
Wing tie-down	Disconnect
-	and Secure
Flaps	Secure
	flated/Cond
	lot Leaking
Fuel tank vent open	Check
Fuel tank sump	Sample
Fuel Quantity	Check
Fuel Filler cap	Secure
	and Check
Stall warning	Check
Landing/Taxi Light(s)	Clean/Cond
Before starting	
Preflight inspection	Complete
Passenger Briefing	Complete
Seats, belts Ad	just & Lock
Doors Close	d & Locked
Brakes	Test & Set
Circuit breakers	Check In
Electrical Equip/Autopi	lot Off
Avionics Power Switch	
Fuel Selector Valve	Both
Fuel shutoff valve	
	On (In)
Starting En	
Throttle Op	en 1/4 inch
Mixture	Rich (IN)
Carb heat	Cold (IN)
Prime As requi	red; locked
Aux Fuel Pump	On
Propeller area	Clear
Master Switch	On
Beacon	On
Ignition	Start
0	
	st 1000 rpm
	eck normal
Aux Fuel Pump	Off
Avionics Master Switch	
Radios	On

Cessna 172 Standby

Transponder	Standby
Flaps	Up
•	
Ammeter	Check
Heading Indicator	Set
ATIS/AŴOS/ASOS	Obtain
Altimeter	Set
Autopilot	Engage
Flight Controls Move A	gainst AP
Autopilot Disconnec	
Departure & Taxi Clrnce	Contact
Before Take	off
Parking brake	Set
	& Locked
	st & Lock
Flight controls Free	& Correct
Instruments (4)	Set
	Check
Fuel Quantity	
Fuel Shutoff Valve	On
Mixture	Rich (IN)
Fuel Selector Valve	Both
Elevator Trim Set for	AKEOFF
Throttle	1800 rpm
Magnetos	Check
Suction gage	Check
Engine Instruments	Check
Ammeter	Check
	ensity Alt
Carb heat	On
Annunciator Panel	Clear
Throttle	1000 rpm
Throttle Friction Lock	Adjust
	-
Strobe Lights	On
Radios/Avionics	Set
Autopilot	Off
Flaps Set for Takeo	
Parking Brake	Release
Windows	Closed
Takeoff	
Flaps	Up
Carb heat	Cold (In)
Transponder	Altitude
	TAKEOFF
Throttle	Full
Tach, oil, airspeed	Check
	t 55 KIAS
Climb 70	0-80 KIAS

In Flight

	8
Crui	
Pitch	Set
Throttle	As required
Trim	Set
Mixture	Adjust
Pre-landing	checklist
Fuel selector	On
Mixture	Rich
Carb Heat	On
Seatbelts	Fastened
Appro	
Flight instruments	Ckd & Set
Radios	Checked
ATIS	Checked
Carb Heat	On (Out)
Mixture	Rich
Landing light	On (IAS (Flaps Up)
Airspeed 65-75 K	IAS (Flaps Dp)
After la	nding
After la Flaps	nding Up
After la	nding
After la Flaps Carb Heat	nding Up Cold (In)
After la Flaps Carb Heat Transponder	nding Up Cold (In) Standby Off
After la Flaps Carb Heat Transponder Landing light Park Avionics	nding Up Cold (In) Standby Off
After la Flaps Carb Heat Transponder Landing light Park	nding Up Cold (In) Standby Off ing Off Off
After la Flaps Carb Heat Transponder Landing light Park Avionics Electrical Throttle	nding Up Cold (In) Standby Off ing Off Off 1000 RPM
After la Flaps Carb Heat Transponder Landing light Park Avionics Electrical Throttle Mixture	nding Up Cold (In) Standby Off ing Off 1000 RPM Cut-off
After la Flaps Carb Heat Transponder Landing light Park Avionics Electrical Throttle Mixture Ignition switch	nding Up Cold (In) Standby Off ing Off 1000 RPM Cut-off Off
After la Flaps Carb Heat Transponder Landing light Park Avionics Electrical Throttle Mixture Ignition switch Master switch	nding Up Cold (In) Standby Off ing Off 1000 RPM Cut-off Off Off
After la Flaps Carb Heat Transponder Landing light Park Avionics Electrical Throttle Mixture Ignition switch Master switch Securing th	nding Up Cold (In) Standby Off ing Off 1000 RPM Cut-off Off Off Off
After la Flaps Carb Heat Transponder Landing light Park Avionics Electrical Throttle Mixture Ignition switch Master switch Securing th Control Lock	nding Up Cold (In) Standby Off ing Off 1000 RPM Cut-off Off Off off off Install
After la Flaps Carb Heat Transponder Landing light Park Avionics Electrical Throttle Mixture Ignition switch Master switch Securing th Control Lock Hobbs/Tach	nding Up Cold (In) Standby Off ing Off 1000 RPM Cut-off Off Off off e aircraft Install Record
After la Flaps Carb Heat Transponder Landing light Park Avionics Electrical Throttle Mixture Ignition switch Master switch Securing th Control Lock Hobbs/Tach Door/Window	nding Up Cold (In) Standby Off ing Off 1000 RPM Cut-off Off Off Off off Install Record Secure
After la Flaps Carb Heat Transponder Landing light Park Avionics Electrical Throttle Mixture Ignition switch Master switch Securing th Control Lock Hobbs/Tach	nding Up Cold (In) Standby Off ing Off 1000 RPM Cut-off Off Off Off off Install Record

ATIS	
Ground	
Tower	
Club	
Fuel	

Procedures

	I I Occuui es		
Short field			
Take-off checklist	Complete		
Taxi	Max runway		
Brakes	Set and hold 10°		
Flaps Throttle	Full		
Brakes	Release		
Climb	57 KIAS		
	ract when clear		
Airspeed	67 KIAS		
Short field	d landing		
Pre-landing check			
Approach	62 KIAS		
Flaps	30 °		
Throttle	Maintain glide		
Touchdown	Power Off		
Flaps	Up		
Elevator	Full up		
	avy as required		
Soft field			
Take-off checklist	Complete		
Flaps	10°		
Taxi	keep rolling		
Climb	54 KIAS		
Flaps Airspeed	retract 67 KIAS		
•			
Soft field			
Pre-landing check Throttle	1500 RPM		
	10°		
Flaps Airspeed	60 KIAS		
	Aain first, softly		
Landing roll	Nose wheel up		
Elevator	Up		
Braking	As required		
Go-ar	ound		
Throttle	Full		
Carb Heat	Cold (In)		
Flaps	20 °		
Climb	55 KIAS		
Flaps	10 °		
Climb	60 KIAS		
Flaps	Up		
Climb	>60 KIAS		

Emergency

Engine failure			
TAKEOFF			
Throttle Brakes Flaps Mixture Ignition Master switch	Idle Apply Retract IDLE cut-off Off Off		
AFTER T Airspeed 65	AKEOFF KIAS (flaps UP)		
Anspeed 60	KIAS (flaps DN)		
Mixture Fuel shutoff valve Ignition Flaps Master switch Cabin Doors	Idle Cut-off Off (Out) Off As Required Off Unlatch		
Land DURING	Straight Ahead		
Airspeed LOOK FOI Fuel shutoff valve Fuel selector valve Aux Fuel Pump S Primer Mixture Ignition Bo Airspeed 65 60 Mixture Fuel shutoff valve Ignition Flaps Mayday Master switch Cabin Doors	65 KIAS R A FIELD On (In) e Both		
Touchdown Carburet			
Throttle Carb Heat Mixture Engine Ro Magnetos	Full On (Out) Adjust Dughness Check		
Mixture Lea	an as necessary		

Engine Fire during start

Crank	Continue		
	ower 1700 RPM (2 min) ngine Shut down and inspect		
Engine Shut dov	vn and inspect		
Engine Fire d	uring flight		
Mixture	Idle Cut-off		
Fuel shutoff valve	Off (Out)		
Master Switch	Off		
Boost Pump	Off		
Cabin Heat/Air	Off		
Airspeed	100 KIAS		
Electrical	failure		
Load meter	Verify		
Alternator	Off		
Reduce load t	o minimum		
Breaker/alt	Check & Rest		
Alternator	On		
If still no	power:		
Alternator	Off		
Reduce load	l and land		
Electrical of	overload		
Master Switch	Off		
Master Switch	On		
	On		
Over-voltage light	-		
Over-voltage light or TERMINA	On Off TE flight ASAP		
Over-voltage light	On Off TE flight ASAP		
Over-voltage light or TERMINA Spin Rec	On Off TE flight ASAP COVERY		
Over-voltage light or TERMINA Spin Rec Ailerons	On Off TE flight ASAP COVERY NEUTRAL		
Over-voltage light or TERMINA Spin Rec Ailerons Throttle	On Off TE flight ASAP COVERY NEUTRAL IDLE		
Over-voltage light or TERMINA Spin Rec Ailerons Throttle Rudder	On Off TE flight ASAP COVERY NEUTRAL IDLE Full opposite Full forward		

Pitch

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	ating WARNING – USE CAUTION		

Level

Reference

V-Speeds (KIAS)

Rotate		Vr	55
Normal Climb Out		V _{clmb}	70-85
Max angle		V _x	60
(Sea Level)		
Max angle		Vx	65
(10,000 ft)			
Climb rate		Vy	79
(Sea Level)			
Climb rate		Vy	71
(10,000 ft)			
Maneuver		Va	82-99
Flaps		V _{fe}	85
Normal max		V _{no}	127
Never exceed		V _{ne}	158
Stall (clean)		Vs	44
Stall (land)		V _{so}	33
Final	Flaps	•	60-70
Approach	No flaps		65-75
Max Glide		60	

Alpha Bravo **C**harlie Delta Echo Foxtrot Golf Hotel India **J**uliet Kilo Lima Mike November Oscar Papa Quebec Romeo **s**ierra Tango Uniform Victor Whiskey Xray Yankee **Z**ulu