CESSNA 172S		AIRCRAFT INSPECTION		AIRCRAFT INSPECTION		DEPARTURE		DEPARTURE		IN-FLIGHT		
		•	INITIAL WALKAROUND		RIGHT FUSELAGE		BEFORE ENGINE START		RUN-UP		AFTER TAKE-OFF (500	
			Covers	REMOVED	Surface Condition	INSPECT	Preflight Inspection	COMPLETE	Parking Brake	SET	Flaps (when clear of obstacles)	
			Fuel Tanks	SUMP x3	Airplane Antennas	INSPECT	Passenger Briefing	PSAFETY	Radios	SWITCH TO TW	R Throttle	
COSTANZO AIR FLIGHT SCHO			Fuel Quantity	CHECK			Seats & Belts	ADJUST & LOCK	Flight Controls	FREE & CORREC	T Mixture (lean above 3,000ft)	
		! FLIGHT SCHOOL	Oil Quantity (min 5 qts)	CHECK	RIGHT WI	NG	Brakes & Parking Brake	HOLD & SET	Flight Instruments	CHECK & SET	Engine Gauges	
					Flap and Aileron	INSPECT	Fuel Selector Valve	BOTH	Fuel Quantity	CHECK	-	
			INTERIOR INSPECT	TION	Wing tip	INSPECT	Fuel Shutoff Valve	FULL IN	Fuel Selector	BOTH	CLIMB	
			Hobbs & Tach	WRITE DOWN	Tie Down	REMOVE	Mixture	IDLE CUTOFF	Mixture	RICH (below 3,000	) Airspeed	
			AROW + AFM Supplements	ABOARD	Leading Edge	INSPECT	Throttle	OPEN 1/4 IN	Throttle	1,800 RPM	Throttle	
			VOR Check (if IFR)	30 DAYS	Main Wheel Tire and Brake	INSPECT	Avionics & Electrical Switches	OFF	Mixture (lean above 3,000ft)	SET FOR TAKEOF	F Mixture (lean above 3,000ft)	
	MY I	SE	Parking Brake	SET	Fuel Tank Sump	DRAIN/CHECK	Circuit Breakers	IN	Magnetos (Max 150 / Diff 50)	CHECK		
	1 1		Control Wheel Lock	REMOVE	Fuel Quantity & Fuel Caps	CHECK			Annunciator Panel	ALL OFF	CRUISE	
		N53576	Ignition Switch	OFF + KEYS OUT			ENGINE STA	ART	Engine Gauges & Vacuum	CHECK	Fuel	
6	0		Fuel Selector Valve	BOTH	NOSE		Beacon	ON	Ammeter & Voltmeter	CHECK	Power	
_			Fuel Shutoff Valve	FULL IN	Oil Quantity (min 5 qts)	CHECK	Master Switch (both sides)	ON	Throttle	IDLE then 1,000	Mixture (lean above 3,000ft)	
	NIE	257/	Elevator Trim	TAKEOFF	Fuel Sumps	CHECK x3	If priming is required	PRIME	COM/NAV/GPS	SET	Engine Gauges	
	N5.	3576	Mixture & Throttle	OFF	Exhaust Stack	SECURE	Pump on, Mixture full until stable for	uel flow (3-5s), Pump off	Autopilot	TEST	Ammeter	
Engine		Lycoming IO-360	Alternate Static	TEST & OFF	Engine Cowling	CHECK CLEAR	Prop Area	CLEAR	Manuel Electric Trim	TEST & TAKEOFF	Instruments & Switches	
Horsepower	r	180hp at 2,700 RPM	Avionics & Electrical Switches	OFF	Alternator Belt	INSPECT	Ignition	START	Transponder	ALT & CODE	Avionics	
Usable fuel q	quantity	53 gal (2x 26.5 gal)	Master Switch	ON	Propeller & Spinner	INSPECT	Mixture FULL V	WHEN ENGINE STARTS	Flaps (10° recommended)	AS REQUIRED		
Total fuel qu	antity	56 gal (2x 28 gal)	Fuel Quantity	CHECK	Air Filter	INSPECT	Throttle	1,000 RPM	Seats, Belts, Harnesses	SECURE	BEFORE MANEUVE	
Oil quantity		5 qts minimum	Avionics (Check Fan)	CYCLE	Nose Wheel Tire & Strut	INSPECT	Oil Pressure	GREEN	Doors & Windows	CLOSED	Clearing Turns	
Tire pressure		45 psi (nose), 38 psi (main)	Annunciator Panel	TEST	Static Port	INSPECT	Alternator	VERIFY ON	Parking Brake	RELEASE	Heading	
			Flaps	EXTEND					Departure Brief	COMPLETE	Altitude	
	WEIGHT	& BALANCE	Exterior Lights & Pitot Heat	CHECK	LEFT WING		AFTER START		SHOWTIME, LIGHTS, CAMERA, ACTION		Position (emergency landing)	
Max Takeoff	f Weight	2,550 lbs	All Switches	OFF	Main Wheel Tire and Brake	INSPECT	Flaps	RETRACT			Set power & configuration	
Max Landing	g Weight	2,550 lbs	Master Switch	OFF	Fuel Tank Sump	DRAIN/CHECK	Mixture	LEAN FOR TAXI	TAKE-OFF			
Empty Weig	ght	1698.9 lbs	Fire Extinguisher (Latch, Green, Pin)	CHECK	Fuel Quantity & Fuel Caps	INSPECT	Avionics	ON	POWER 2300 / GAUGES GREEN	/ AIRSPEED ALIVE	IN RANGE	
CG Arm		40.99 in	Seat Position	SET	Leading Edge & Lights	INSPECT	Electrical Switches	AS DESIRED	NORMAL TAKEOFF (I	0° FLAPS)	ATIS/AWOS	
					Pitot Tube	INSPECT	Nav Lights	AS NEEDED	Throttle	FULL	Altimeter	
	V-SI	PEEDS	EXTERIOR INSPEC	TION	Stall Warning	INSPECT	Ammeter	CHARGING	Rotate	55 KIAS	Approach	
Vso	40 KIAS	VFE 20/30° 85 KIAS	LEFT FUSELAG	GE	Fuel Tank Vent	INSPECT			Climb	70-80 KIAS	Avionics	
Vs	48 KIAS	VFE 10° 110 KIAS	Surface Condition	INSPECT	Tie Down	REMOVE	BEFORE TA	XI	SHORT FIELD TAKE-OFF	(10° FLAPS)	Airplane	
VR	55 KIAS	Va @2,550 lbs 105 KIAS	Baggage Door	LOCKED	Wing tip	INSPECT	Radios, Transponder, GPS	SET	Max Runway & Brakes	USE & APPLY		
Vx	62 KIAS	Va @2,200 lbs 98 KIAS	Autopilot Static Port	INSPECT	Flap and Aileron	INSPECT	ATIS/AWOS	LISTEN	Throttle	FULL ON BRAKE	DESCENT	
VY	74 KIAS	Va @1,900 lbs 90 KIAS	EMPENNAGE		•		Altimeter	SET 2X	Brakes	RELEASE	Fuel Selector Valve	
VNO	129 KIAS	VNE 163 KIAS	Surface Condition	INSPECT	FINAL WALKA	ROUND	Parking Brake	RELEASE	Elevator Control	SLIGHT TAIL LO	V Power & Mixture (Full rich for idle)	
			Elevator Control Surface	FREE	Aircraft Condition	CHECK	Brakes	TEST	Climb past obstacle	56 KIAS	Brake Pressure	
EMERGENCY AIRSPEEDS			Elevator Hinges & Cable Attachment	INSPECT	All Covers, Tie-downs	REMOVED	Taxi Light	ON	SOFT FIELD TAKE-OFF	(10° FLAPS)	Engine Gauges	
Engine failure after takeoff		Engine failure in flight	Elevator Trim Tab	INSPECT	Windshield	CLEAN	Taxi (Route, Hotspots, Runways)	BRIEF	Elevator	FULL AFT	Seats	
Flaps Up	70 KIAS	Vg 68 KIAS	Rudder Hinges & Cable Attachment	INSPECT	Oil, Fuel, Sump	CHECK	Taxi Clearance	OBTAIN	Rotate & Accelerate	IN GND EFFECT	Seatbelts	
Flaps Down			Tail Tie Down	REMOVE					Climb	Vx or Vy	Landing Light	

	IN-FLIGHT NORMAL LANDING		EMERGENCIES ENGINE FAILURE DURING TAKEOFF		EMERGENCI	-5	EMERGENCIES  EXCESSIVE CHARGE (FULL DEFLECTION)	
AGL)					ENGINE FIRE DURIN	G START		
UP	Airspeed (Flaps Up)	65-75 KIAS	Throttle	IDLE	Cranking	CONTINUE	Alternator	OFF
FULL	Flaps	AS DESIRED	Brakes	APPLY	If Engine Starts 1,800 RPN	1 (2 MINS) THEN OFF	Nonessential Electrical Equipment	OFF
SET	Final Airspeed (Flaps Down)	60-70 KIAS	Flaps	RETRACT	If Engine Fails to Start		Flight TERMINAT	E as soon as practica
GREEN	Touchdown	MAIN WHEELS	Mixture	IDLE CUT-OFF	Throttle	FULL OPEN		
	Landing Roll L	OWER NOSE WHEEL	Ignition Switch	OFF	Mixture	IDLE CUT-OFF	LOW YOLTS ANNUNCIATOR	R / DISCHARGE
	Braking	AS REQUIRED	Master Switch	OFF	Cranking	CONTINUE	Avionics	OFF
75-85 KIAS					Fuel Shutoff Valve	OFF / FULL OUT	Alternator CB (ALT FLD)	CHECK IN
FULL	SHORT FIELD LA	NDING	ENGINE FAILURE AF	TER TAKEOFF	Fire Extinguisher	OBTAIN	Master Switch	CYCLE
SET	Airspeed (Flaps Up)	65-75 KIAS	Airspeed 70 IAS (Flaps	Up) / 65 IAS (Flaps Down)	Master Switch	OFF	Low Voltage Annunciator	CHECK OFF
	Flaps	FULL DOWN	Land	STRAIGHT AHEAD	Ignition Switch	OFF	Avionics	ON
	Final Airspeed	61 KIAS	Mixture	IDLE CUT-OFF	Parking Brake	RELEASE	If Low Voltage Annunciator illuminates	again
BOTH	Power once clear of Obstacles	IDLE	Fuel Shutoff Valve	OFF / FULL OUT	Fire	EXTINGUISH	Alternator	OFF
SET	Touchdown	MAIN WHEELS	Ignition Switch	OFF	ENGINE FIRE IN F	LIGHT	Nonessential Electrical Equipment	OFF
SET	Braking (Simulate)	APPLY HEAVILY	Flaps	AS REQUIRED	Mixture	IDLE CUTOFF	Flight TERMINAT	E as soon as practic
CHECK	Flaps	RETRACT	Master Switch	OFF	Fuel Shutoff Valve	OFF / FULL OUT		
CHECK					Aux Fuel Pump	OFF	INADVERTENT ICING EN	COUNTER
CHECK	BALKED LANDING / G	O-AROUND	ENGINE FAILURE DI	JRING FLIGHT	Master Switch	OFF	Pitot Heat, Cabin Heat, Defroster	ON
SET	Throttle	FULL	Airspeed	68 IAS	Cabin Air & Heat (except overhead)	OFF	Cabin Heat and Defroster	ON
	Flaps	20°	Fuel Selector Valve	вотн	Airspeed / Emergency Descent	100 KIAS or more	Turn back or change altitude to exit ic	ing conditions
R	Airspeed	55 KIAS	Fuel Shutoff Valve	FULL IN	Forced Landing	EXECUTE	Throttle (to minimize prop ice buildup	p) INCREASE
COMPLETE	Flaps (until clear of Obstacles)	10°	Mixture	RICH			Carb Heat	AS REQUIRED
ESTABLISHED	Flaps (at safe altitude and 60 KIAS)	RETRACT	Aux Fuel Pump	ON	ELECTRICAL FIRE IN	FLIGHT	Land at nearest airport, or off airport	if rapid ice buildup.
ESTABLISHED				Ignition Switch (START if prop stopped) BOTH or START		OFF	Be prepared for higher stall speed	
SUITABLE	AFTER LANDI	NG			Avionics	OFF	Flaps	DON'T EXTEND
SET	Flaps	UP	FORCED LA	NDING	All Electrical Switches	OFF	Approach speed	65-75 IAS
	Mixture	LEAN FOR TAXI	Airspeed 70 IAS (Flaps	Up) / 65 IAS (Flaps Down)	Overhead Vents/Cabin Air/Heat	CLOSED	Scrape windshield through left window	, forward slip if req'
	Lights	AS REQUIRED	Mixture	IDLE CUT-OFF	Fire	EXTINGUISH		
LISTEN	Trim	RESET	Fuel Shutoff Valve	OFF	When Fire Extinguished	OPEN VENTS	RADIO FAILUR	E
SET 2X	Taxi Brief & Clearance	OBTAIN	Ignition Switch	OFF	If Fire extinguised and Electricals Req	uired	Volume and Squelch	CHECK
BRIEF			Emergency (with ATC or 121.5)	DECLARE	Master Switch	ON	Audio Panel	CHECK
SET	SHUTDOW	N	Transponder	7700	Circuit Breakers (DO NOT RESET	CHECK	Headset Plugs	CHECK
CHECK	Parking Brake	AS REQUIRED	Flaps (30° recommended)	AS REQUIRED	Avionics and Electrical switches	ON ONE BY ONE	Circuit Breakers	VERIFY
	Avionics and Electrical Switches	OFF	Master Switch	OFF			Frequency RETURN	N TO LAST OR 121
	Throttle	1,000 RPM	Doors UNL	ATCH BEFORE LANDING	CABIN FIRE IN FI	IGHT		
BOTH	Mixture	IDLE CUTOFF	Touchdown	SLIGHTLY TAIL LOW	Master Switch	OFF	LANDING WITH FLAT	MAIN TIRE
AS DESIRED	Ignition Switch	OFF & KEYS OUT	Brakes	APPLY HEAVILY	Overhead Vents/Cabin Air/Heat	CLOSED	Approach	NORMAL
CHECK	Master Switch	OFF			Extinguish Fire and Land as soon as p	ossible	Touchdown	GOOD TIRE FIRS
GREEN	Fuel Selector	LEFT / RIGHT					Hold airplane off flat tire as long as po-	ssible
UPRIGHT	Control Wheel Lock	INSTALL			WING FIRE			
SECURED	Hobbs & Tach	WRITE DOWN			All Lights and Pitot Heat	OFF	_	
ON	Tie-downs and Covers	INSTALL			Perform sideslip to keep flames away			