	CESS	NA 172S		AIRCRAFT INSPEC	TION	AIRCRAFT IN	SPECTION	DEPARTU	RE	DEPARTUR	E	IN-FLIGHT
				FUEL & OIL		RIGHT FUSELAGE		BEFORE ENGINE START		RUN-UP		AFTERTAKE-OFF (500)
				Fuel Tanks	SUMP x13	Surface Condition	INSPECT	Preflight Inspection	COMPLETE	Parking Brake	SET	Flaps (when clear of obstacles)
				Fuel Quantity	CHECK	Airplane Antennas	INSPECT	Passenger Briefing	COMPLETE	Radios	SWITCHTOTWE	
COSTANZO AIR FLIGHT SCHOOL		Oil Quantity (min 5 grs)	CHECK	Parachute Cover NO HOLES/CRACH				Flight Controls FREE & CORRECT		Γ Mixture		
		INTERIOR INSPEC	TION	Parachute Harness Straps FLUSH/NO CRACK		S Parking Brake	SET	Flight Instruments	CHECK & SET	Engine Gauges		
		Hobbs & Tach	WRITE DOWN			Parachute Pin	REMOVED	Parachute Pin	CHECK REMOVE	D		
				AROW + AFM Supplements	ABOARD	RIGHT	/ING	Fuel Selector Valve	вотн	Fuel Quantity	CHECK	CLIMB
				VOR Check (if IFR)	30 DAYS	Flap and Aileron	INSPECT	Fuel Shutoff Valve	FULL IN	Fuel Selector	BOTH	Airspeed
				Parking Brake	SET	Wing tip	INSPECT	Mixture	IDLE CUTOFF	Mixture	RICH (below 3,000)) Throttle
			/	Control Wheel Lock	REMOVE	Tie Down	REMOVE	Throttle	OPEN 1/4 IN	Throttle	1,800 RPM	Mixture (Lean above 3,000ft)
1	My a		SP	Ignition Switch	OFF + KEYS OUT	Leading Edge	INSPECT	Avionics & Electrical Switches	OFF	Mixture (lean >3,000 MSL)	SET FOR TAKEOF	F
	10		700	Parachute Box & Pin	CHECK & REMOVE	Main Wheel Tire and Brake	INSPECT	Circuit Breakers	IN	Magnetos (Max 150 / Diff 50)	CHECK	CRUISE
-	Horsepower 180hp at 2,700 RPM Usable fuel quantity 53 gal (2× 26.5 gal) Total fuel quantity 56 gal (2× 28 gal) Oil quantity 5 qts minimum Tire pressure 45 pal (nose), 38 pai (main year) WEIGHT & BALANCE	F	Fuel Selector Valve	вотн	Fuel Tank Sump	DRAIN/CHECK			Annunciator Panel	ALL OFF	Fuel	
0 0		Fuel Shutoff Valve	FULL IN	Fuel Quantity & Fuel Caps	CHECK	ENGINE STA	RT	Engine Gauges	CHECK	Power		
_	_			Elevator Trim	TAKEOFF			Beacon	ON	Ammeter	CHECK	Mixture
	NIE	LZOE		Mixture & Throttle	OFF	NOS		Master Switch (both sides)	ON	Throttle	IDLE then 1,000	Engine Gauges
	IND	1075		Alternate Static	TEST & OFF	Oil Quantity (min 5 qts)	CHECK	If priming is required	PRIME	COM/NAV/GPS	SET	Ammeter
Engine		Lycoming IO:	360	Avionics & Electrical Switches	OFF	Fuel Sumps	CHECK x3	Pump on, Mixture Full until Stable Fu	el flow (3-5s), Pump off	Autopilot	TEST	Instruments & Switches
Horsepowe	r	180hp at 2,70	0 RPM	Master Switch	ON	Exhaust Stack	SECURE	Prop Area	CLEAR	Manuel Electric Trim	TEST & TAKEOFF	Avionics
Usable fuel	quantity	53 gal (2x 26.	5 gal)	Fuel Quantity	CHECK	Engine Cowling	CHECK CLEAR	Ignition	START	Transponder	ALT & CODE	
Total fuel qu	uantity	56 gal (2x 28	gal)	Avionics (Check Fan)	CYCLE	Alternator Belt	INSPECT	Throttle	1,000 RPM	Flaps (10° recommended)	AS REQUIRED	BEFORE MANEUVE
Oil quantity		5 qts minimu	m	Annunciator Panel	TEST	Propeller & Spinner	INSPECT	Oil Pressure	GREEN	Seats, Belts, Harnesses	SECURE	Clearing Turns
Tire pressur	re	45 psi (nose),	38 psi (main)	Flaps	EXTEND	Air Filter	INSPECT	Alternator	ON	Doors & Windows	CLOSED	Heading
				Exterior Lights & Pitot Heat	CHECK	Nose Wheel Tire & Strut	INSPECT			Departure Brief	COMPLETE	Altitude
	WEIGHT	& BALANCE		All Switches	OFF	Static Port	INSPECT			SHOWTIME, LIGHTS, CAM	ERA, ACTION	Position (emergency landing)
Max Takeoff	Max Takeoff Weight 2,550 lbs		Master Switch	OFF				AFTER START		TAKE-OFF		
Max Landin	g W eight	2,550 lbs		Fire Extinguisher (Latch, Green, Pin)	CHECK	LEFTW	ING	Flaps	RETRACT	POWER 2300 / GAUGES GREEN	/ AIRSPEED ALIVE	
Empty Weig	ght	1774.25 lbs		Seat Position	SET	Main Wheel Tire and Brake	INSPECT	Mixture	LEAN FOR TAXI	NORMAL TAKEOFF (I	0° FLAPS)	IN RANGE
CG Arm		42.89 in		Windshield	CLEAN	Fuel Tank Sump	DRAIN/CHECK	Avionics	ON	Throttle	FULL	ATIS / AWOS
						Fuel Quantity & Fuel Caps	INSPECT	Electrical Switches	AS DESIRED	Rotate	55 KIAS	Altimeter
	V-S	PEEDS		EXTERIOR INSPEC	TION	Leading Edge & Lights	INSPECT	Nav Lights	AS NEEDED	Climb	70-80 KIAS	Approach
Vso	40 KIAS	VFE 20/30°	85 KIAS	LEFT FUSELAG	E	Pitot Tube	INSPECT	Ammeter	CHARGING	SHORT FIELD TAKE-OFF	(10° FLAPS)	Avionics
Vs	48 KIAS	VFE 10°	110 KIAS	Surface Condition	INSPECT	Stall Warning	INSPECT			Brakes	APPLY	Airplane
VR	55 KIAS	Va @2,550 lbs	105 KIAS	Baggage Door	LOCKED	Fuel Tank Vent	INSPECT	BEFORETAX	CI	Throttle	FULL ON BRAKE	s
Vx	62 KIAS	Va @2,200 lb:	98 KIAS	Autopilot Static Port	INSPECT	Tie Down	REMOVE	ATIS/AWOS	LISTEN	Brakes	RELEASE	DESCENT
VY	74 KIAS	Va @ 1,900 lb:	90 KIAS	EMPENNAGE		Wing tip	INSPECT	Altimeter	SET x3	Elevator Control	SLIGHT TAIL LOV	V Fuel Selector Valve
VNO	129 KIAS	VNE	163 KIAS	Surface Condition	INSPECT	Flap and Aileron	INSPECT	Radios & Transponder	SET	Climb past obstacle	56 KIAS	Power
				Elevator Control Surface	FREE			Parking Brake	OFF	SOFT FIELD TAKE-OFF		Mixture (Full rich for idle)
	EMERGENO	CY AIRSPEED	S	Elevator Hinges & Cable Attachment	INSPECT	FINAL WALK	AROUND	Brakes	TEST	Flaps	10*	Engine Gauges
Engine failure	after takeoff	VG	68 KIAS	Elevator Trim Tab	INSPECT	Fuel Caps, Sumps, Oil	CHECK	Taxi Light	ON	Elevator	FULL AFT	Seats
Flaps Up	70 KIAS	Emergency Pa	arachute	Rudder Hinges & Cable Attachment	INSPECT	All Covers, Tie-downs	REMOVED	Taxi (Route, Hotspots, Runways)	BRIEF	Rotate & Accelerate	IN GND EFFECT	Seatbelts
Flaps Down	65 KIAS	VPD	163 KIAS	Tail Tie Down	REMOVE	Windshield	CHECK CLEAN	Taxi Clearance	OBTAIN	Climb	Vx or Vy	Landing Light

	IN-FLIGHT		EMERGENC	ES	EMERGENCIE	EMERGENCIES		
AGL)	NORMAL LAND	ING	ENGINE FAILURE DURI	NG TAKEOFF	ENGINE FIRE DURING START		PARACHUTE DEPLOYMENT	
JP	Airspeed (Flaps Up)	65-75 KIAS	Throttle	IDLE	Cranking	CONTINUE	Mixture	IDLE CUTOFF
ULL	Flaps	AS DESIRED	Brakes	APPLY	If Engine Starts 1,800 RPM	(2 MINS) THEN OF	F Parachute Handle Cover	REMOVE
SET	Final Airspeed (Flaps Down)	60-70 KIAS	Flaps	RETRACT	If Engine Fails to Start		Activation Handle	PULL HARD
GREEN	Touchdown	MAIN WHEELS	Mixture	IDLE CUT-OFF	Throttle	FULL OPEN	Fuel Shutoff Valve	OFF
	Landing Roll	LOWER NOSEWHEE	L Ignition Switch	OFF	Mixture	IDLE CUT-OFF	Master Switch	OFF
	Braking	AS REQUIRED	Master Switch	OFF	Cranking	CONTINUE	Secure seatbelts, use Emergency Land	ding Body Position
75-85 KIAS					Fuel Shutoff Valve	OFF / FULL OUT		
FULL	SHORT FIELD LAI	NDING	ENGINE FAILURE IMMEDIA	ATELY AFTER TO	Fire Extinguisher	OBTAIN	EXCESSIVE CHARGE (FUL	L DEFLECTION
SET	Airspeed (Flaps Up)	65-75 KIAS	Airspeed 70 IAS (Flaps U	p) / 65 IAS (Flaps Down)	Master Switch	OFF	Alternator	OFF
	Flaps	FULL DOWN	Land	STRAIGHT AHEAD	Ignition Switch	OFF	Nonessential Electrical Equipment	OFF
	Final Airspeed	61 KIAS	Mixture	IDLE CUT-OFF	Parking Brake	RELEASE	Flight TERMIN	IATE as soon as pra
вотн	Power once clear of Obstacles	IDLE	Fuel Shutoff Valve	OFF / FULL OUT	Fire	EXTINGUISH		
SET	Touchdown	MAIN WHEELS	Ignition Switch	OFF	ENGINE FIRE IN FL	IGHT	LOW YOLTS ANNUNCIATO	R / DISCHARGE
SET	Braking (Simulate)	APPLY HEAVILY	Flaps	AS REQUIRED	Mixture	IDLE CUTOFF	Avionics	OFF
CHECK	Flaps	RETRACT	Master Switch	OFF	Fuel Shutoff Valve	OFF / FULL OUT	Alternator CB (ALT FLD)	CHECK IN
CHECK					Aux Fuel Pump	OFF	Master Switch	CYCLE
CHECK	BALKED LANDING / G	O-AROUND	ENGINE FAILURE DUR	ING FLIGHT	Master Switch	OFF	Low Voltage Annunciator	CHECK OFF
SET	Throttle	FULL	Airspeed	68 IAS	Cabin Air & Heat (except overhead)	OFF	Avionics	ON
	Flaps	20°	Fuel Selector Valve	BOTH	Airspeed / Emergency Descent	100 KIAS OR MOF	REIf Low Voltage Annunciator illuminates	s again
1	Airspeed	55 KIAS	Fuel Shutoff Valve	FULL IN	Forced Landing	EXECUTE	Alternator	OFF
OMPLETE	Flaps (until clear of Obstacles)	10°	Mixture	RICH			Nonessential Electrical Equipment	OFF
TABLISHED	Flaps (at safe altitude and 60 KIAS)	RETRACT	Aux Fuel Pump	ON	ELECTRICAL FIRE IN	FLIGHT	Flight TERMIN	IATE as soon as pr
STABLISHED			Ignition Switch (START if prop stoppe	ed) BOTH or START	Master Switch	OFF	•	
UITABLE	AFTER LANDI	NG			Avionics	OFF	INADVERTENT ICING E	NCOUNTER
SET	Flaps	UP	FORCED LAND	DING	All Electrical Switches	OFF	Pitot Heat, Cabin Heat, Defroster	ON
	Mixture	LEAN FOR TAXI	Airspeed 70 IAS (Flaps U	p) / 65 IAS (Flaps Down)	Overhead Vents/Cabin Air/Heat	CLOSED	Cabin Heat and Defroster	ON
	Lights	AS REQUIRED	Mixture	IDLE CUT-OFF	Fire	EXTINGUISH	Turn back or change altitude to exit is	icing conditions
LISTEN	Trim	RESET	Fuel Shutoff Valve	OFF	When Fire Extinguished	OPEN VENTS	Throttle (to minimize prop ice builde	up) INCREASE
SET x3	Taxi Clearance	OBTAIN	Ignition Switch	OFF	If Fire extinguised and Electricals Requi	red	Carb Heat	AS REQUIRE
BRIEF			Emergency (with ATC or 121.5)	DECLARE	Master Switch	ON	Land at nearest airport, or off airport	if rapid ice buildu
SET	SHUTDOW	N	Transponder	7700	Circuit Breakers (DO NOT RESET)	CHECK	Be prepared for higher stall speed	
CHECK	Parking Brake	SET	Flaps (30° recommended)	AS REQUIRED	Avionics and Electrical switches	ON ONE BY ONE	Flaps	DON'T EXT
	Avionics and Electrical	OFF	Master Switch	OFF			Approach speed	65-75 IAS
	Throttle	1,000 RPM	Doors UNLAT	CH BEFORE LANDING	CABIN FIRE IN FLI	GHT	Scrape windshield through left windo	w, forward slip if r
BOTH	Mixture	IDLE CUTOFF	Touchdown	SLIGHTLY TAIL LOW	Master Switch	OFF		
AS DESIRED	Ignition Switch	OFF & KEYS OUT	Brakes	APPLY HEAVILY	Overhead Vents/Cabin Air/Heat	CLOSED	RADIO FAILU	IRE
ADJUST	Master Switch	OFF			Extinguish Fire and Land as soon as pos	sible	Volume and Squelch	CHECK
GREEN	Fuel Selector	LEFT / RIGHT	LANDING WITH FLAT	MAINTIRE	•		Audio Panel	CHECK
UPRIGHT	Parachute Pin	INSTALL	Approach	NORMAL	WING FIRE		Headset Plugs	CHECK
SECURED	Control Wheel Lock	INSTALL	Touchdown	GOOD TIRE FIRST	All Lights and Pitot Heat	OFF	Circuit Breakers	VERIFY
					•			

Hold airplane off flat tire as long as possible

Perform sideslip to keep flames away from cabin & fuel tank Frequency

RETURN TO LAST OR 121.5

ON

Tie-Downs, Chocks, Covers

INSTALL