## **AIRCRAFT INSPECTION**



## **COSTANZO AIR FLIGHT SCHOOL**



**INTERIOR INSPECTION** 



N75829

	Hobbs & Tach Time	WRITE DOWN
	AROW + AFM Supplements	ABOARD
	VOR Check (if IFR)	30 DAYS
7	Parking Brake	SET
	Control Wheel Lock	REMOVE
	Ignition Switch	OFF + KEYS OUT
	Elevator Trim	NEUTRAL
	Mixture	OFF
	Throttle	OFF
	Alternate Static	TEST & OFF
	Electrical Switches	OFF
	Avionics Switch	OFF
	Master Switch	ON
	Fuel Quantity	CHECK
	Flaps	EXTEND
	Exterior Lights & Pitot Heat	CHECK
	All Switches	OFF
	Master Switch	OFF
	Fire Extinguisher (Latch, Green, Pin)	CHECK
	Seat Position	SET

Engine	Lycoming O320		
Horsepower	160hp at 2,700 RPM		
Usable fuel quantity	40 gal (2x 20 gal)		
Total fuel quantity	43 gal (2x 21.5 gal)		
Oil quantity	5 qts minimum		
Tire pressure	31 psi (nose), 29 psi (main)		

Flaps Up

Flaps Down

65 KIAS

60 KIAS

WEIGHT & BALANCE		Fire Extinguisher (Latch, Green, Pin)	CHECK
Max Takeoff Weight	2,300 lbs	Seat Position	SET
Max Landing Weight	2,300 lbs	Windshield	CLEAN
Empty Weight	1434.7 lbs		

<b>CG Arm</b> 39.34 in		EXTERIOR INS	PECTION		
			LEFT FUSE	LAGE	
	V-S	SPEEDS .		Surface Condition	INSPECT
Vs0	41 KIAS	VFE 20/30/40°	85 KIAS	Baggage Door	LOCKED
Vs	47 KIAS	VFE IO°	110 KIAS	ELT Antenna	INSPECT
VR	55 KIAS	VA @2,300 lbs	97 KIAS	EMPENNA	AGE
Vx	59 KIAS	VA @1,950 lbs	89 KIAS	Surface Condition	INSPECT
VY	73 KIAS	VA @1,600 lbs	80 KIAS	Elevator Control Surface	FREE
VNO	128 KIAS	VNE	160 KIAS	Elevator Hinges	INSPECT
				Elevator Cable Attachments	INSPECT
	EMERGEN	CY AIRSPEEDS	;	Elevator Trim Tab	INSPECT
Engine failure after TO		Vg	65 KIAS	Rudder Hinges	INSPECT

Rudder Cable Attachments

Tail Tie Down

INSPECT REMOVE

Surface Condition INSPECT Preflight Inspection COMPLETE Airplane Antennas INSPECT Passenger Briefing PSAFETY  Seats & Belts ADJUST & LOCK  RIGHT WING Brakes & Parking Brake HOLD & SET  Flap and Aileron INSPECT Fuel Selector Valve BOTH Wing tip INSPECT Mixture FULL RICH Tie Down REMOVE Throttle OPEN 1/8 IN Leading Edge INSPECT Carb Heat OFF Main Wheel Tire and Brake INSPECT Avionics & Electrical Switches OFF Fuel Tank Sump DRAIN/CHECK Circuit Breakers IN Fuel Quantity & Fuel Caps CHECK  FUEL Strainer DRAIN/CHECK Prime (if required) 2-6 STROKES & LOCK Fuel Strainer DRAIN/CHECK Prop Area CLEAR Exhaust Stack SECURE Master Switch ON Engine Cowling CHECK LEAR Ignition START  Alternator Belt INSPECT Oil Pressure GREEN Landing Lights INSPECT Alternator VERIFY ON Air Filter INSPECT  Nose Wheel Tire & Strut INSPECT Flaps RETRACT  Mixture LEAN FOR TAXI  Mixture LEAN FOR TAXI  Electrical Switches AS DESIRED
Airplane Antennas INSPECT Passenger Briefing PSAFETY  Seats & Belts ADJUST & LOCK  RIGHT WING Brakes & Parking Brake HOLD & SET  Flap and Aileron INSPECT Fuel Selector Valve BOTH  Wing tip INSPECT Mixture FULL RICH  Tie Down REMOVE Throttle OPEN 1/8 IN  Leading Edge INSPECT Carb Heat OFF  Main Wheel Tire and Brake INSPECT Avionics & Electrical Switches OFF  Fuel Tank Sump DRAIN/CHECK Circuit Breakers IN  Fuel Quantity & Fuel Caps CHECK  FUGUAINTY & Fuel Caps ON  OII Quantity (min 5 qts) CHECK Prime (if required) 2-6 STROKES & LOCK  Fuel Strainer DRAIN/CHECK Prop Area CLEAR  Exhaust Stack SECURE Master Switch ON  Engine Cowling CHECK CLEAR Ignition START  Alternator Belt INSPECT Throttle I,000 RPM  Propeller & Spinner INSPECT Oil Pressure GREEN  Landing Lights INSPECT Alternator VERIFY ON  Air Filter INSPECT  Nose Wheel Tire & Strut INSPECT  Flaps RETRACT  Mixture LEAN FORTAXI
RIGHT WING  RIGHT WING  Brakes & Parking Brake  HOLD & SET  Flap and Aileron  INSPECT  Fuel Selector Valve  BOTH  Wing tip  INSPECT  Mixture  FULL RICH  Tie Down  REMOVE  Throttle  OPEN 1/8 IN  Leading Edge  INSPECT  Avionics & Electrical Switches  OFF  Wing tip  OPEN 1/8 IN  OFF  Fuel Tank Sump  DRAIN/CHECK  Circuit Breakers  IN  Fuel Quantity & Fuel Caps  CHECK  ENGINE START   NOSE  Beacon  ON  OIl Quantity (min 5 qts)  CHECK  Prime (if required)  2-6 STROKES & LOCK  Fuel Strainer  DRAIN/CHECK  Prop Area  CLEAR  Exhaust Stack  SECURE  Master Switch  ON  Engine Cowling  CHECK CLEAR  Inspect  Inspect  Throttle  Inspect  Inspect  Inspect  Alternator Belt  Inspect  Inspect  Alternator  Air Filter  Inspect  Inspect  Inspect  After Start  Static Port  Inspect  Inspect  Flaps  RETRACT  Mixture  Mixture  ENDINE START  HOLD & SET  BOTH  HOLD & SET  BOTH  HOLD & SET  BOTH  HOLD & SET  BOTH  HOLD & SET  FULL RICH  HOLD & SET  BOTH  HOLD & SET  BOTH  HOLD & SET  FULL RICH  BOTH  HOLD & SET  FULL RICH  BOTH  HOLD & SET  FULL RICH  HOLD & SET  FULL RICH  BOTH  HOLD & SET  FULL RICH  HOLD & SET  FULL RICH  BOTH  HOLD & SET  FULL RICH  HOLD & SET  FULL RICH  BOTH  HOLD & SET  FULL RICH  FULL RICH  BOTH  HOLD & SET  FULL RICH  BOTH  HOLD & SET  FULL RICH  BOTH  HOLD & SET  FULL RICH  FULL RICH  FULL RICH  FULL RICH  BOTH  HOLD & SET  FULL RICH  FULL RICH  BOTH  HOLD & SET  FULL RICH  FULL R
RIGHT WING  Brakes & Parking Brake  HOLD & SET  Flap and Aileron  INSPECT  Fuel Selector Valve  BOTH  Wing tip  INSPECT  Mixture  FULL RICH  Tie Down  REMOVE  Throttle  OPEN 1/8 IN  Leading Edge  INSPECT  Main Wheel Tire and Brake  INSPECT  Avionics & Electrical Switches  OFF  Fuel Tank Sump  DRAIN/CHECK  Circuit Breakers  IN  Fuel Quantity & Fuel Caps  CHECK  Fuel Strainer  NOSE  Beacon  ON  Oil Quantity (min 5 qts)  CHECK  Prime (if required)  2-6 STROKES & LOCK  Fuel Strainer  DRAIN/CHECK  Prop Area  CLEAR  Exhaust Stack  SECURE  Master Switch  ON  Engine Cowling  CHECK CLEAR  Alternator Belt  INSPECT  Throttle  INSPECT  Alternator  GREEN  Arrithter  INSPECT  Alternator  Air Filter  INSPECT  Nose Wheel Tire & Strut  INSPECT  Flaps  RETRACT  Mixture  LEAN FOR TAXI
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Static Port INSPECT Flaps RETRACT Mixture LEAN FOR TAXI
Mixture LEAN FOR TAXI
LEFT WING Flectrical Switches AS DESIRED
LICENTERS OFFICERS
Main Wheel Tire and Brake INSPECT Nav Lights AS REQUIRED
Fuel Tank Sump DRAIN/CHECK Avionics ON
Fuel Quantity & Fuel Caps INSPECT Ammeter CHARGING
Leading Edge INSPECT
Pitot Tube INSPECT BEFORE TAXI
Stall Warning INSPECT ATIS LISTEN
Fuel Tank Vent INSPECT Altimeter SET x2
Tie Down REMOVE Radios & Transponder SET
Wing tip INSPECT Parking Brake RELEASE
Flap and Aileron INSPECT Brakes TEST
Taxi Light ON
FINAL WALKAROUND Taxi (Route, Hotspots, Runways) BRIEF
Airplane Condition CHECK Taxi Clearance OBTAIN
All Covers, Tie-downs REMOVED
Windshield CLEAN DURING TAXI
Oil, Fuel, Sump CHECK Flight instruments CHECKED

DEPARTURE IN-FLIGHT

RUN-UP		AFTER TAKE-OFF (500 AGL)	
Parking Brake	SET	Flaps (when clear of obstacles)	UP
Radios	SWITCH TO TWR	Throttle	FULL
Flight Controls	FREE & CORRECT	Mixture	SET
Flight Instruments	CHECK & SET	Engine Gauges	GREEN
Fuel Quantity	CHECK		
Fuel Selector	вотн	CLIMB	
Trim	SET FOR TAKEOFF	Airspeed	75-85 KIAS
Mixture	RICH (below 3,000)	Throttle	FULL
Throttle	1,700 RPM	Mixture (Lean above 3,000ft)	SET
Mixture (lean >3,000 MSL)	SET FOR TAKEOFF		
Magnetos (Max 125 / Diff 50) CHECK		CRUISE	
Carburetor Heat	RPM DROP	Fuel	ВОТН
Suction Gauge	CHECK	Power	SET
Engine Gauges	CHECK	Mixture	SET
Ammeter	CHECK	Engine Gauges	CHECK
Throttle	IDLE then 1,000	Ammeter	CHECK
COM/NAV/GPS	SET	Instruments & Switches	CHECK
Transponder	ALT & CODE	Avionics	SET
Flaps	AS REQUIRED		
Seats, Belts, Harnesses	SECURE	BEFORE MANEUV	ER
Doors & Windows	CLOSED	Clearing Turns	COMPLETE
Parking Brake	RELEASE	Heading	ESTABLISHED
Departure Brief	COMPLETE	Altitude	ESTABLISHED
SHOWTIME, LIGHTS, CAMER	A, ACTION	Position (emergency landing)	SUITABLE
		Set power & configuration	SET
TAKE-OFF			
POWER 2300 / GAUGES GREEN / AIRSPEED ALIVE		IN RANGE	
NORMAL TAKEOFF (0°	FLAPS)	ATIS / AWOS	LISTEN
Throttle	FULL	Altimeter	SET ×2
Rotate	55 KIAS	Approach	BRIEF
Climb	70-80 KIAS	Avionics	SET
SHORT FIELD TAKE-OFF (	0° FLAPS)	Airplane	CHECK
Brakes	APPLY		
Throttle	FULL ON BRAKES	DESCENT	
Brakes	RELEASE	Fuel Selector Valve	вотн
Elevator Control	SLIGHT TAIL LOW	Carb Heat	FULL AS REQD
Climb past obstacle	59 KIAS	Power & Mixture (Full rich for idle)	AS DESIRED
SOFT FIELD TAKE-OFF (1	0° FLAPS)	Brake Pressure	CHECK
Elevator	FULL AFT	Seats	UPRIGHT
Rotate & Accelerate	IN GND EFFECT	Seatbelts	SECURED
Climb	Vx or Vy	Landing Light	ON

IN-FLIGHT EMERGENCIES

NORMAL LANDING		ENCINE FAILURE DURING	CTAVEOFF
		ENGINE FAILURE DURING	
Airspeed (Flaps Up)	60-70 KIAS	Throttle	IDLE
Flaps	AS DESIRED	Brakes	APPLY
Final Airspeed (Flaps Down)	55-65 KIAS	Flaps	RETRACT
Touchdown	ON MAIN GEAR	Mixture	IDLE CUT-OFF
Braking	AS REQUIRED	Ignition Switch	OFF
SHORT FIELD LAND		Master Switch	OFF
Airspeed (Flaps Up)	60-70 KIAS		ELV A ETER TO
Flaps	FULL DOWN	ENGINE FAILURE IMMEDIAT	
Final Airspeed	60 KIAS	,	60 IAS (Flaps Down)
Power once clear of Obstacles	IDLE	Land	STRAIGHT AHEAD
Touchdown	ON MAIN GEAR	Mixture	IDLE CUT-OFF
Braking (Simulate)	APPLY HEAVILY	Fuel Selector Valve	OFF
Flaps	RETRACT	Ignition Switch	OFF
		Flaps	AS REQUIRED
BALKED LANDING / GO-		Master Switch	OFF
Throttle	FULL		
Carb Heat	COLD	ENGINE FAILURE DURIN	G FLIGHT
Flaps	20° IMMEDIATELY	Airspeed	65 IAS
Airspeed	55 KIAS	Carburetor Heat	ON
Flaps (when clear of Obstacles)	10°	Fuel Selector Valve	ВОТН
Flaps (at safe altitude and 60 KIAS)	RETRACT	Mixture	RICH
		Ignition Switch (START if prop stopped)	BOTH or START
AFTER LANDING	G	Primer	IN AND LOCKED
Flaps	UP		
Mixture	LEAN FOR TAXI	FORCED LANDIN	IG
Carb Heat	COLD	Airspeed 65 IAS (Flaps Up)	60 IAS (Flaps Down)
Lights	AS REQUIRED	Mixture	IDLE CUT-OFF
Trim	RESET	Fuel Selector Valve	OFF
Taxi Brief & Clearance	OBTAIN	Ignition Switch	OFF
		Emergency (with ATC or 121.5)	DECLARE
SHUTDOWN		Transponder	7700
Parking Brake	AS REQUIRED	Flaps (40° recommended)	AS REQUIRED
Avionics and Electrical	OFF	Master Switch	OFF
Throttle	1,000 RPM	Doors UNLATCH	BEFORE LANDING
Mixture	IDLE CUTOFF	Touchdown	SLIGHTLY TAIL LOW
Ignition Switch	OFF & KEYS OUT	Brakes	APPLY HEAVILY
Master Switch	OFF		
Fuel Selector	LEFT / RIGHT	LANDING WITH FLAT M	AINTIRE
Control Wheel Lock	INSTALL	Approach	NORMAL
Tach, Hobbs, Post-flight	RECORD	Touchdown	GOOD TIRE FIRST
Tie-Downs, Chocks, Covers	INSTALL	Hold airplane off flat tire as long as poss	ible

ENGINE FIRE DURING	START	OVER-VOLTAGE LIGHT I	LLUMINATES
Cranking	CONTINUE	Master Switch (both sides)	OFF
If Engine Starts 1,700 RPM	(2 MINS) THEN OFF	Master Switch (both sides)	ON
If Engine Fails to Start		Over-Voltage Light	OFF
Throttle	FULL OPEN	If light illuminates again, terminate as	soon as practical
Mixture	IDLE CUT-OFF		
Cranking	CONTINUE	AMMETER SHOWS D	ISCHARGE
Fire Extinguisher	OBTAIN	Alternator	OFF
Master Switch	OFF	Nonessential Electrical Equipment	OFF
Ignition Switch	OFF	Flight TERMINATE as	soon as practical
Fuel Selector	OFF		
Parking Brake	RELEASE	INADVERTENT ICING E	NCOUNTER
Fire	EXTINGUISH	Pitot Heat, Cabin Heat, Defroster	ON
		Cabin Heat and Defroster	ON
ENGINE FIRE IN FL	IGHT	Turn back or change altitude to exit i	cing conditions
Mixture	IDLE CUTOFF	Throttle (to minimize prop ice builde	ıp) INCREASE
Fuel Selector Valve	OFF	Carb Heat	AS REQUIRED
Master Switch	OFF	Land at nearest airport, or off airport	if rapid ice buildup.
Cabin Air & Heat (except overhead)	OFF	Be prepared for higher stall speed	
Airspeed / Emergency Descent	100 KIAS or more	Flaps	DON'T EXTEND
Forced Landing	EXECUTE	Approach speed	65-75 IAS
		Scrape windshield through left windo	w, forward slip if req'd.
ELECTRICAL FIRE IN	FLIGHT		
Master Switch	OFF	RADIO FAILU	RE
Avionics	OFF	Volume and Squelch	CHECK
All Electrical Switches	OFF	Audio Panel	CHECK
Overhead Vents/Cabin Air/Heat	CLOSED	Headset Plugs	CHECK
Fire	EXTINGUISH	Circuit Breakers	VERIFY
When Fire Extinguished	OPEN VENTS	Frequency RETU	IRN TO LAST OR 121.5
If Fire extinguised and Electricals Required			
	red		
Master Switch	ed ON	STATIC SOURCE BL	OCKAGE
		STATIC SOURCE BL Alternate Static Valve	OCKAGE PULL ON

CABIN FIRE IN FLIGHT		LANDING WITHOUT ELEVATOR CONTROL		
Master Switch	OFF	Horizontal flig	ht, 60 KIAS, flaps 20° SET	
Overhead Vents/Cabin Air/Heat	CLOSED	Pitch	CONTROL WITH TRIM & POWER	
Extinguish Fire and Land as soon as possible		Flare	TRIM TO FULL NOSE UP	

WING FIRE		
All Lights and Pitot Heat	OFF	
Perform sideslip to keep flames away from cabin & fuel tank		