CESSNA 172N

AIRCRAFT INSPECTION

INITIAL WALKAROUND

INTERIOR INSPECTION

REMOVED

SUMP x3 CHECK

CHECK

ABOARD

30 DAYS

REMOVE

NEUTRAL

TEST & OFF

OFF + KEYS OUT

SET

OFF

OFF

OFF

OFF

ON

OFF OFF

CHECK

CHECK EXTEND CHECK

WRITE DOWN

	INITIAL WA
	Covers
	Fuel Tanks
	Fuel Quantity
COSTANZO AIR FLIGHT SCHOOL	Oil Quantity (min 5 qts)
	INTERIOR
	Hobbs & Tach
	AROW + AFM Supplements
	VOR Check (if IFR)
	Parking Brake
mar al	Control Wheel Lock
	Ignition Switch
N63720	Elevator Trim
	Mixture
-	Throttle

N6372D	

Engine	Lycoming O360	Avionics Switch
Horsepower	180hp at 2,700 RPM	Master Switch
Usable fuel quantity	40 gal (2x 20 gal)	Fuel Quantity
Total fuel quantity	43 gal (2x 21.5 gal)	Flaps
Oil quantity	5 qts minimum	Exterior Lights & Pitot Heat
Tire pressure	31 psi (nose), 29 psi (main)	All Switches
		Master Switch
WEIGH1	& BALANCE	Fire Extinguisher (Latch, Green, Pin)

		0 (, -	
Max Takeoff Weight	2,550 lbs	Seat Position	SET
Max Landing Weight	2,550 lbs	Windshield	CLEAN
Empty Weight	1,509.63 lbs		
CG Arm	38.9 in	EXTERIO	R INSPECTION

Alternate Static

Electrical Switches

				LEFT FUSEL	AGE
	V-S	PEEDS		Surface Condition	INSPECT
Vs0	41 KIAS	Vfe 20/30°	85 KIAS	Baggage Door	LOCKED
Vs	47 KIAS	VFE 10°	I I 0 KIAS	ELT Antenna	INSPECT
VR	55 KIAS	VA @2,300 lbs	97 KIAS	EMPENNA	GE
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 a	fter takeoff	VG	65 KIAS	Rudder Hinges	INSPECT
Flaps Up	65 KIAS			Rudder Cable Attachments	INSPECT
Flaps Down	60 KIAS			Tail Tie Down	REMOVE

AIRCRAFT INSPECTION		DEPARTURE	
RIGHT FUSELAGE		BEFORE ENGINE START	
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	вотн
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		
		ENGINE STAR	т
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 (Battery Side Only)	ON
Engine Cowling	CHECK CLEAR	Ignition	START
Alternator Belt	INSPECT	Throttle	1,000 RPM
Propeller & Spinner	INSPECT	Oil Pressure	GREEN
Landing Lights	INSPECT	Alternator	VERIFY ON
Air Filter	INSPECT	_	
Nose Wheel Tire & Strut	INSPECT	AFTER STAR	Г
Static Port	INSPECT	Flaps	RETRACT
		Mixture	LEAN FOR TAXI
LEFT WING		Electrical Switches	AS DESIRED
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 TAX	I
Stall Warning	INSPECT	ATIS	LISTEN
Fuel Tank Vent	INSPECT	Altimeter	SET
Tie Down	REMOVE	Radios & Transponder	SET
Wing tip	INSPECT	Parking Brake	RELEASE
Flap and Aileron	INSPECT	Brakes	TEST
		Taxi Light	ON
FINAL WALKAROU	JND	Taxi (Route, Hotspots, Runways)	BRIEF
Airplane Condition	CHECK	Taxi Clearance	OBTAIN
All Covers, Tie-downs	REMOVED	· · · · · · · · · · · · · · · · · · ·	
Windshield	CLEAN	DURING TAX	
Oil, Fuel, Sump	CHECK	Flight instruments	CHECKED

DEPARTUR	1	IN-FLIGH	т
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	BOTH	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	BOTH
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 MANE	UVER
Doors & Windows	CLOSED	Clearing Turns	COMPLETE
Parking Brake	RELEASE	Heading	ESTABLISHED
Departure Brief	COMPLETE	Altitude	ESTABLISHED
SHOWTIME, LIGHTS, CAME	ERA, 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
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	BOTH
Elevator Control	SLIGHT TAIL LOW	Carb Heat	FULL AS REQD
		• •	
Climb past obstacle	59 KIAS	Power & Mixture (Full rich for idle)	AS DESIRED
Climb past obstacle SOFT FIELD TAKE-OFF (1	59 KIAS		
	59 KIAS	Power & Mixture (Full rich for idle)	AS DESIRED
SOFT FIELD TAKE-OFF (I	59 KIAS 0° FLAPS)	Power & Mixture (Full rich for idle) Brake Pressure	AS DESIRED CHECK

IN-FLIGHT		EMERGENCIES	1
NORMAL LAND	NG	ENGINE FAILURE DURING	TAKEOFF
Airspeed (Flaps Up)	60-70 KIAS	Throttle	IDLE
Flaps	AS DESIRED	Brakes	APPLY
Final Airspeed (Flaps Down)	55-65 KIAS	Flaps	RETRACT
Touchdown	MAIN WHEELS	Mixture	IDLE CUT-OFF
Braking	AS REQUIRED	Ignition Switch	OFF
SHORT FIELD LAN	DING	Master Switch	OFF
Airspeed (Flaps Up)	60-70 KIAS		
Flaps	FULL DOWN	ENGINE FAILURE IMMEDIATI	ELY AFTER TO
Final Airspeed	60 KIAS	Airspeed 65 IAS (Flaps Up) /	60 IAS (Flaps Down)
Power once clear of Obstacles	IDLE	Land	STRAIGHT AHEAD
Touchdown	MAIN WHEELS	Mixture	IDLE CUT-OFF
Braking (Simulate)	APPLY HEAVILY	Fuel Selector Valve	OFF
Flaps	RETRACT	Ignition Switch	OFF
		Flaps	AS REQUIRED
BALKED LANDING / GO	-AROUND	Master Switch	OFF
Throttle	FULL		
Carb Heat	COLD	ENGINE FAILURE DURIN	G FLIGHT
Flaps	20°	Airspeed	65 IAS
Airspeed	55 KIAS	Carburetor Heat	ON
Flaps (until clear of Obstacles)	10°	Fuel Selector Valve	BOTH
Flaps (at safe altitude and 60 KIAS)	RETRACT	Mixture	RICH
		Ignition Switch (START if prop stopped)	BOTH or START
AFTER LANDIN	IG	Primer	IN AND LOCKED
Flaps	UP		
Mixture	LEAN FOR TAXI	FORCED LANDIN	G
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 (30° recommended)	AS REQUIRED
Avionics and Electrical	OFF	Master Switch	OFF
Throttle	1,000 RPM	Doors UNLATCH	BEFORE LANDING
Mixture	IDLE CUTOFF	Touchdown S	LIGHTLY 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	ble

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EMERGENCIES

ENGINE FIRE DURING	START	EXCESSIVE CHARGE (AMM F	FULL DEFLECTION)
Cranking	CONTINUE	Alternator	OFF
If Engine Starts I,700 RPM	(2 MINS) THEN OFF	Nonessential Electrical Equipment	OFF
If Engine Fails to Start		Flight TERMIN	NATE as soon as practica
Throttle	FULL OPEN		
Mixture	IDLE CUT-OFF	LOW VOLTS / EXCESSIV	'E DISCHARGE
Cranking	CONTINUE	Avionics	OFF
Fire Extinguisher	OBTAIN	Master Switch (both sides)	CYCLE
Master Switch	OFF	Low Voltage Light	CHECK OFF
Ignition Switch	OFF	Avionics	ON
Fuel Selector	OFF	If Low voltage light illuminates again	
Parking Brake	RELEASE	Alternator	OFF
Fire	EXTINGUISH	Nonessential Electrical Equipment	OFF
		Flight TERMINATE as	soon as practical
ENGINE FIRE IN FLI	GHT		
Mixture	IDLE CUTOFF	INADVERTENT ICING	ENCOUNTER
Fuel Selector Valve	OFF	Pitot Heat, Cabin Heat, Defroster	ON
Master Switch	OFF	Cabin Heat and Defroster	ON
Cabin Air & Heat (except overhead)	OFF	Turn back or change altitude to exit	icing conditions
Airspeed / Emergency Descent	100 KIAS or more	Throttle (to minimize prop ice build	lup) INCREASE
Forced Landing	EXECUTE	Carb Heat	AS REQUIRED
		Land at nearest airport, or off airpor	t if rapid ice buildup.
ELECTRICAL FIRE IN F	LIGHT	Be prepared for higher stall speed	
Master Switch	OFF	Flaps	DON'T EXTEND
Avionics	OFF	Approach speed	65-75 IAS
All Electrical Switches	OFF	Scrape windshield through left windo	ow, forward slip if req'd.
Overhead Vents/Cabin Air/Heat	CLOSED		
Fire	EXTINGUISH	RADIO FAILU	JRE
When Fire Extinguished	OPEN VENTS	Volume and Squelch	CHECK
If Fire extinguised and Electricals Require	ed	Audio Panel	CHECK
Master Switch	ON	Headset Plugs	CHECK
Circuit Breakers (DO NOT RESET)	CHECK	Circuit Breakers	VERIFY

CABIN FIRE IN FLIGHT		STATIC SOURC	STATIC SOURCE BLOCKAGE	
Master Switch	OFF	Alternate Static Valve	PULL ON	
Overhead Vents/Cabin Air/Heat	CLOSED	Instruments	CALIBRATE	
Extinguish Fire and Land as soon as p	oossible			

		LANDING WITHOUT ELEVATOR CONTROL	
WING FIRE		Horizontal fligh	nt, 60 KIAS, flaps 20° SET
All Lights and Pitot Heat	OFF	– Pitch	CONTROL WITH TRIM & POWER
Perform sideslip to keep flames away from cabin & fuel tank		Flare	TRIM TO FULL NOSE UP