

CESSNA 172N - N75829

CHECKLIST



COSTANZO AIR FLIGHT SCHOOL

PREFLIGHT

CABIN

Required Documents/POH.....ABOARD
Parking Brake.....SET
Control Wheel Lock.....REMOVE
Ignition Switch.....OFF
Elevator Trim.....NEUTRAL
Mixture.....OFF
Throttle.....OFF
Alternate Static Source.....CHECKED/OFF
Electrical Switches.....OFF
Avionics Power Switch.....OFF
Master Switch.....Prop Area Clear-ON
Fuel Quantity.....CHECK
Flaps.....DOWN
Lights.....DAY OFF/NIGHT CHECKED
Master Switch.....OFF

LEFT WING/FUSELAGE

Main Wheel Tire and Brake.....CHECK
Fuel Tank Sump.....DRAIN/CHECK
Fuel Quantity.....CHECK/SECURE CAP
Leading Edge.....CHECK
Pilot Tube.....CHECK Stall
Warning.....CHECK Fuel
Tank Vent.....CHECK
Tie Down.....REMOVE
Aileron and Flap.....CHECK
ELT.....ARMED
Baggage Door.....CLOSED/LOCKED

EMPENNAGE

Control Surfaces.....CHECK
Elevator Trim Tab.....CHECK
Tail Tie Down.....REMOVE

RIGHT WING/FUSELAGE

Airplane Antennas.....CHECK
Aileron and Flap.....CHECK
Leading Edge.....CHECK
Tie-Down.....REMOVE
Main Wheel Tire and Brake.....CHECK
Fuel Tank Sump.....DRAIN
Fuel Quantity.....CHECK

NOSE

Oil.....CHECK - **minimum \ 4qts**
Fuel Strainer/Belly Sump.....DRAIN/CHECK
Exhaust Stack.....SECURE
Alternator Belt.....CHECK
Propeller and Spinner.....CHECK
Landing Lights.....CHECK
Air Filter.....CHECK
Nose Wheel Tire and Strut.....CHECK
Static Source.....CHECK

BEFORE STARTING ENGINE

Preflight.....COMPLETE
Passengers.....BRIEFED
Seats and Seat Belts.....ADJUST & LOCK
Parking Brake.....SET
Fuel Selector Valve.....BOTH
Mixture.....RICH
Throttle.....OPEN 1/8"
Carb Heat.....OFF
Avionics and Electrical.....OFF
Circuit Breakers.....IN
Beacon.....ON
Prime.....2-6 STROKES/LOCKED
Prop Area.....CLEAR

STARTING ENGINE

Master Switch.....ON
Ignition Switch.....START
Throttle.....1000 RPM
Oil Pressure.....CHECK-GREEN
Mixture.....LEAN

PRETAXI

Ammeter.....NORMAL CHARGE
Flaps.....UP
Avionics.....ON/SET
Altimeter.....SET
Transponder.....STANDBY/CODE
Brakes.....TEST

BEFORE TAKEOFF & RUNUP

Parking Brake.....SET
Radios.....SWITCH TO TOWER (if applicable)
Cabin Doors & Windows.....CLOSED & LOCKED
Flight Controls.....FREE/CORRECT
Flight Instruments.....SET
Fuel Selector.....BOTH
Trim.....TAKE-OFF
Mixture.....RICH (BELOW 3000')
Throttle.....1700 RPM
Carb Heat.....CHECKED/OFF
Magnetos (125 max drop / 50 differential).....CHECKED/BOTH
Engine Instruments.....CHECK-GREEN
Ammeter.....CHECKED
Vacuum.....CHECK-GREEN
Throttle.....IDLE CHECK, THEN 1000 RPM
Pre-Takeoff Briefing.....COMPLETE

TAKEOFF

Clearance.....OBTAINED (if applicable)
Flaps.....UP/AS REQUIRED
Transponder.....ON/ALT
Strobe/Landing Light.....ON
Carb Heat.....COLD

NORMAL

Throttle.....FULL OPEN
Rotate.....55 KIAS
Climb Speed.....70-80 KIAS

SHORT FIELD

Brakes.....APPLY
Throttle.....FULL OPEN
Mixture.....RICH (lean for max RPM ABOVE 3000')
Brakes.....RELEASE
Elevator Control.....SLIGHTLY TAIL LOW
Climb Speed.....59 KIAS (until all obstacles are cleared)

Vx – 59 KIAS

Vy – 73 KIAS

CLIMB

Power.....AS PLANNED
Mixture.....AS REQUIRED
Flaps.....UP
Airspeed.....75-85 KIAS

CRUISE

Power.....AS PLANNED
Mixture.....LEAN AS REQUIRED
Landing Light.....OFF

BEFORE LANDING

ATIS/WX.....COPY
Airport Information.....REVIEW

Fuel Selector Valve.....BOTH
 Mixture..... RICH or AS REQUIRED
 Carb Heat.....ON
 Landing Light..... ON
 Primer.....IN and LOCKED
 Seat Belts.....ADJUST and LOCK
 Brake Pressure.....CHECK

LANDING

NORMAL

Airspeed.....60–70 KIAS (Flaps up)
 Flaps.....AS DESIRED
 Airspeed.....55–65 KIAS (Flaps down)
 Touchdown.....MAIN WHEELS
 Braking.....AS REQUIRED

SHORT FIELD

Airspeed.....60–70 KIAS (Flaps up)
 Flaps.....FULL DOWN
 Airspeed.....60 KIAS (until flare)
 Power.....REDUCE to idle after clearing
 obstacles
 Touchdown.....MAIN WHEELS
 Braking.....APPLY HEAVILY
 Wings Flaps.....RETRACT

BALKED LANDING (GO AROUND)

Throttle.....FULL OPEN
 Carb Heat.....COLD
 Flaps.....20
 Climb.....55 KIAS
 Flaps.....10 (until obstacles
 are cleared, RETRACT at safe altitude and 60 KIAS)

AFTER LANDING

Flaps.....UP
 Carb Heat.....COLD
 Lights.....AS REQUIRED
 Transponder.....STANDBY
 Mixture.....LEAN AS REQUIRED

SHUTDOWN

Parking Brake.....SET
 Avionics and Electrical.....OFF
 Throttle.....IDLE
 Mixture.....IDLE CUT-OFF
 Ignition Switch.....OFF
 Master Switch.....OFF
 Control Wheel Lock.....INSTALL
 Post-Flight Walkaround.....COMPLETE

INSTRUMENT APPROACH BRIEFING GUIDE

ATIS Briefing
 Planned Approach/Alternate Approach
 Field Elevation
 Min. Altitudes: IAF, Procedure Turn, FAF, GSIA
 Localizer or Final Approach Course
 MDA or DH
 Missed Approach Procedure
 Approach Speed & Time From FAF to MAP
 Runway/Approach Lighting
 Caution Items Depicted on Plate

EMERGENCY PROCEDURES

ENGINE FAILURE DURING FLIGHT

Airspeed.....65 KIAS
 Carb Heat.....ON
 Landing Site.....SELECT
 Fuel Selector Valve.....BOTH
 Mixture.....RICH
 Primer.....IN & LOCKED
 Ignition Switch.....BOTH - START

FORCE LANDING

Airspeed.....65 KIAS (flaps up) 60 KIAS (flaps down)
 Mixture.....IDLE CUT-OFF
 Fuel
 Selector Valve.....OFF
 Flaps.....AS REQUIRED
 Radio Call.....AS REQUIRED 121.5
 Transponder.....7700
 Ignition Switch.....OFF
 Master Switch.....OFF
 Doors.....UNLATCH
 Touchdown.....TAIL LOW
 Brakes.....APPLY HEAVILY

ENGINE FIRE IN FLIGHT

Mixture.....IDLE CUT-OFF
 Fuel Selector
 Valve.....OFF Master
 Switch.....OFF Cabin
 Heat and Air.....OFF
 Airspeed.....100 KIAS or MORE
 Forced Landing.....EXECUTE
DO NOT ATTEMPT RESTART

ELECTRICAL FIRE IN FLIGHT

Master Switch.....OFF
 Avionics and Electrical Switches.....OFF
 Cabin.....Heat-Air
 Vents.....CLOSED
 Fire Extinguisher.....ACTIVATE
 Vents.....OPE
N IF FIRE IS OUT AND ELECTRICAL POWER IS NEEDED
 Master Switch.....ON
 Circuit Breakers.....CHECK
DO NOT RESET CIRCUIT BREAKERS
 Avionics and Electrical Switches.....ON ONE BY ONE

FIRE DURING ENGINE START

Cranking.....CONTINUE
IF ENGINE STARTS:
 Power.....1700 RPM (2 min.)
 Engine.....SHUTDOWN
IF ENGINE FAILS TO START:
 Throttle.....FULL OPEN
 Mixture.....IDLE CUT-OFF
 Cranking.....CONTINUE
 Fire Extinguisher.....OBTAIN
 Master and Ignition Switch.....OFF
 Fuel.....Selector
 Valve.....OFF
 Fire.....EXTINGUISH

ELECTRICAL MALFUNCTION

Over-voltage light illuminates

Master.....OFF (both sides)
 Master.....ON If
 over-voltage light illuminates again.....TERMINATE FLIGHT ASAP

Ammeter shows discharge

Alternator.....OFF
 Non-Essential Electrical Equip.....OFF
 Flight.....TERMINATE ASAP