

# SPRINGS AVIATION

CESSNA 172L 150HP

N2830Q

## NORMAL PROCEDURES CHECKLIST

### - AFTER TAKEOFF -

Airspeed . . . . . Vx / Vy / AS REQ  
Flaps . . . . . UP  
Throttle . . . . . FULL  
Mixture . . . . . ADJUST AS NEEDED

### - CRUISE -

Power . . . . . SET (2000-2400 RPM)  
Elevator Trim . . . . . SET  
Mixture . . . . . LEAN  
Engine Instruments . . . . . CHECK  
Taxi/Landing Light . . . . . ON - AS NECESSARY  
Heading Indicator . . . . . SET TO COMPASS

### - IN-RANGE/DESCENT/APPROACH -

ATIS/AWOS . . . . . CHECK ASAP  
Preliminary Approach Brief . . . . . COMPLETE  
Airport Diagram (Keep Available) . . . . . CHECK  
Seat Belts & Shoulder Harness. . . . . FASTENED  
Mixture . . . . . ENRICHEN AS NEEDED  
Heading Indicator . . . . . SET TO COMPASS  
Fuel Selector . . . . . BOTH  
Parking Brake . . . . . CHECK RELEASED  
Taxi/Landing Light . . . . . ON

### BEFORE LANDING (Memory Items) -

Lights . . . . . AS REQUIRED  
Carb Heat . . . . . CARB HEAT ON  
Gas . . . . . BOTH  
Undercarriage . . . . . FIXED  
Mixture . . . . . SET AS REQUIRED  
Propeller . . . . . FIXED  
Seat Belts / Shoulder Harness . . . . . ON

### - AFTER LANDING (Memory Items)-

Wing Flaps . . . . . UP  
Carb Heat . . . . . COLD  
Lights . . . . . AS REQUIRED  
Transponder . . . . . STANDBY  
Mixture . . . . . LEAN  
Taxi Clearance . . . . . OBTAIN &. BRIEF

### - SHUT DOWN & SECURING -

Parking Brake . . . . . SET  
Comm Radio . . . . . CHECK 121.5 for ELT  
Avionics & Electrical Switches . . . . . OFF  
(leave Beacon switch ON)  
Throttle . . . . . IDLE RPM  
Throttle . . . . . 1000 RPM  
Mixture . . . . . CUTOFF  
Ignition Switch . . . . . OFF (Keys Removed)  
Master Switch . . . . . OFF  
Hobbs & Tach . . . . . CHECK & RECORD

### OUTSIDE TIEDOWN & INSPECTION

Control Wheel / Gust Lock . . . . . IN PLACE  
Parking Brake . . . . . RELEASE  
Move Plane to Parking . . . . . WITH TOW BAR  
Wheel Chocks . . . . . IN PLACE  
Tie-Downs . . . . . SECURE  
Pitot Tube Cover . . . . . INSTALL  
Fuel Selector . . . . . OFF  
Doors . . . . . CLOSED & SECURED  
Walkaround . . . . . COMPLETE  
*Flight Plan* . . . . . CLOSE

Vr: 52 kts, 60 mph  
Vx: 59 kts, 69 mph  
Vy: 71 kts, 82 mph  
Vg: 65 kts, 75 mph  
Va @2300lbs: 106 kts, 122 mph  
Va @2000lbs: 99 kts, 114 mph  
Vs0: 43 kts, 49 mph  
Vs1: 50 kts, 57 mph  
Vno: 122 kts, 140 mph  
Vne: 151 kts, 174 mph

*This checklist is only for training purposes and is not intended to replace the POH.  
Revised 05/05/2020*

### - PREFLIGHT INSPECTION

Weather . . . . . CHECK  
W&B & Performance. . . . . COMPUTE

### CABIN

Hobbs & Tach . . . . . CHECK & RECORD  
Documents (A.R.R.O.W) . . . . . CHECK  
Parking Brake . . . . . SET  
Control Wheel/Gust Lock . . . . . REMOVE  
Pitot Tube Cover . . . . . REMOVE  
Ignition & Avionics Switch . . . . . OFF  
Master Switch . . . . . BATTERY ON  
Fuel Gauges . . . . . CHECK QUANTITY  
Avionics Cooling Fan . . . . . CHECK ON (audible)  
Lights . . . . . ON – CHECK – OFF  
Pitot Heat . . . . . ON – CHECK – OFF  
Wing Flaps . . . . . EXTEND FULLY  
Master Switch . . . . . OFF  
Alternate Static Source . . . . . OFF  
Elevator Trim Control . . . . . TAKEOFF  
Fuel Selector Valve . . . . . BOTH

### EXTERIOR

Fuel Tank Sumps (1/wing) . . . . . CHECK  
Fuel Tank Quantity . . . . . CHECK  
Fuel Filler Cap . . . . . CHECK SECURE  
Tie-downs & Chocks . . . . . REMOVE  
Windshield & Windows . . . . . CLEAN

### AFT FUSELAGE & EMPENNAGE

Baggage Door . . . . . SECURE  
Antennas . . . . . SECURE  
Stabilizers . . . . . CHECK CONDITION  
Elevator & Rudder. . . . . CONDITION/OPERATION  
Trim Tabs . . . . . CHECK  
ADS-B Out Fin . . . . . CHECK CONDITION  
*(DO NOT TOUCH!)*

**- PREFLIGHT INSPECTION (Continued) -**

Flap . . . . . CHECK CONDITION & BACKLASH  
Aileron . . . . . CONDITION/OPERATION  
Wingtip & Leading Edge . . . . . CHECK  
Tire, Wheel, & Brakes . . . . . CONDITION  
Door . . . . . CONDITION

**NOSE, ENGINE, PROPELLER, & COWLING**

Engine Cowling . . . . . CHECK SECURITY  
Fuel Strainer . . . . . DRAIN  
Oil Quantity . . . . . CHECK  
Propeller & Spinner . . . . . CHECK CONDITION  
Alternator Drive Belt . . . . . CHECK TENSION  
Engine Cooling Air Inlets . . . . . CHECK CLEAR  
Carburetor Air Filter . . . . . CHECK CLEAN & SECURE  
Exhaust Stack . . . . . CHECK SECURE  
Nose Wheel, Strut, & Tire . . . . . CONDITION  
Static Source Opening . . . . . CHECK CLEAR

**LEFT WING**

Pitot Tube . . . . . CHECK CLEAR  
Fuel Vent Tube . . . . . CHECK CLEAR  
Stall Warning Vent . . . . . CHECK CLEAR  
Wingtip & Leading Edge . . . . . CHECK  
Aileron . . . . . CONDITION/OPERATION  
Flap . . . . . CHECK CONDITION & BACKLASH  
Tire, Wheel, & Brakes . . . . . CONDITION  
Door . . . . . CONDITION

**BEFORE STARTING ENGINE**

Tow Bar . . . . . STOWED  
Passenger Brief . . . . . COMPLETE  
Seat, Seat Belt, Shoulder Harness . . . . . ADJUST  
Avionics & Electric Switches . . . . . OFF  
Circuit Breakers . . . . . CHECK IN  
Fuel Selector Valve . . . . . RECHECK ON BOTH  
Beacon . . . . . ON  
Navigation Light . . . . . ON

**- STARTING ENGINE -**

**COLD ENGINE**

Mixture . . . . . NOT FULL RICH (out 1" for altitude)  
Throttle . . . . . OPEN ¼ INCH  
Carb Heat . . . . . COLD  
Prime . . . . . 2-3 TIMES & LOCK  
Propeller Area . . . . . CHECK CLEAR  
Master Switch . . . . . BATTERY ON  
Ignition Switch . . . . . START  
(release @ engine start & verify disengaged)  
Throttle . . . . . 1000 RPM or less  
Oil Pressure . . . . . CHECK

**WARM ENGINE**

Mixture . . . . . NOT FULL RICH (out 1" for altitude)  
Throttle . . . . . OPEN ¼ INCH  
Carb Heat . . . . . COLD  
Prime . . . . . ½ - 1 TIME & LOCK  
Propeller Area . . . . . CHECK CLEAR  
Master Switch . . . . . BATTERY ON  
Ignition Switch . . . . . START  
(release @ engine start & verify disengaged)  
Throttle . . . . . 1000 RPM or less  
Oil Pressure . . . . . CHECK

**- AFTER STARTING ENGINE -**

Master Switch . . . . . ALTERNATOR ON  
Wing Flaps . . . . . UP  
Avionics & Headsets . . . . . ON  
ATIS/AWOS/Clearance . . . . . OBTAIN  
Transponder . . . . . STANDBY, SET CODE  
Mixture . . . . . LEAN FOR TAXI

**- TAXI**

Cabin Doors . . . . . CLOSED & LOCKED  
Taxi/Landing Light . . . . . ON  
Taxi Clearance . . . . . OBTAIN (as necessary)  
Taxi Path . . . . . CLEAR & BRIEF  
Parking Brake . . . . . RELEASE  
Brakes . . . . . TEST & RELEASE  
Turn Coordinator . . . . . CHECK (in turns)  
Sterile Cockpit . . . . . MAINTAIN

**BEFORE TAKEOFF -**

Nose Wheel . . . . . STRAIGHT  
Parking Brake . . . . . SET  
Taxi/Landing Light . . . . . OFF  
Seat, Seat Belt, Shoulder Harness . . . . . ADJUST  
Cabin Doors . . . . . RECHECK CLOSED & LOCKED  
Flight Controls . . . . . CHECK FREE & CORRECT  
Flight Instruments . . . . . CHECKED & CORRECT  
Fuel Quantity . . . . . RECHECK adequate for flight  
Primer . . . . . RECHECKED IN & LOCKED  
Fuel Selector . . . . . RECHECK BOTH  
Trim Controls . . . . . SET FOR TAKEOFF  
Throttle . . . . . SET 1700 RPM

Mixture . . . . . RICH or SET FOR ALTITUDE  
Magnetos . . . . . CHECK (125 max, 50 diff)  
Carb Heat . . . . . CHECK  
Vacuum . . . . . CHECK GAUGE  
(4.6"-5.4" on suction gauge)

Engine Instruments . . . . . CHECK Ammeter  
. . . . . CHECK GAUGE  
Throttle . . . . . CHECK IDLE, then 1000 RPM or less

Wing Flaps . . . . . SET FOR TAKEOFF  
Radios (Comm & Nav) . . . . . SET  
Transponder . . . . . ALT  
Parking Brake . . . . . RELEASE  
Taxi/Landing, Strobe Lights . . . . . AS NEEDED  
Takeoff Clearance . . . . . OBTAIN/ANNOUNCE