

# SPRINGS AVIATION

CESSNA 172N 180HP

**N5155K**

## NORMAL PROCEDURES CHECKLIST

### - AFTER TAKEOFF -

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

### - CRUISE -

Power . . . . . SET (2200-2700 RPM)  
Elevator Trim . . . . . SET  
Mixture . . . . . LEAN  
Engine Instruments . . . . . CHECK  
Heading Indicator . . . . . SET TO COMPASS  
Lights . . . . . ON - AS NECESSARY

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

ATIS/AWOS . . . . . CHECK ASAP  
Approach Brief . . . . . COMPLETE  
Airport Diagram (Keep Available) . . . . . CHECK  
Seat Belts & Shoulder Harness . . . . . FASTENED  
Mixture . . . . . ENRICHEN AS NEEDED  
Carb Heat . . . . . USE AS NEEDED  
Fuel Selector . . . . . BOTH  
Parking Brake . . . . . CHECK RELEASED  
Heading Indicator . . . . . SET TO COMPASS  
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  
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  
Magnetos . . . . . CHECK GROUNDING  
Throttle . . . . . 1000 RPM  
Mixture . . . . . CUTOFF  
Ignition Switch . . . . . OFF (Keys Removed)  
Master Switch . . . . . OFF  
**Hobbs & Tach . . . . . RECORD ON FSP**  
**OUTSIDE TIEDOWN & INSPECTION**  
Fuel Selector . . . . . OFF  
Control Wheel / Gust Locks . . . . . IN PLACE  
Pitot Tube Cover . . . . . INSTALL  
Parking Brake . . . . . RELEASE  
Sunscreen . . . . . INSTALL  
Move Plane to Parking . . . . . WITH TOW BAR  
Wheel Chocks . . . . . IN PLACE  
Tie-Downs . . . . . SECURE  
Doors . . . . . CLOSED & SECURED  
Walkaround . . . . . COMPLETE  
*Flight Plan . . . . . CLOSE*

Vr: 55 kts  
Vx: 61 kts  
Vy: 70 kts  
Vg: 65 kts  
Va @2550lbs: 105 kts  
Va @1950lbs: 89 kts  
Vs0: 33 kts  
Vs1: 44 kts  
Vno: 127 kts  
Vne: 158 kts

*This checklist is only for training purposes and is not intended to replace the POH.  
Revised 6/22/2022*

### - PREFLIGHT INSPECTION -

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

#### CABIN

**Hobbs & Tach . . . . . DISPATCH ON FSP**  
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  
Low Volt Light . . . . . CHECK ON  
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

**- PREFLIGHT INSPECTION (Continued) -**

**AFT FUSELAGE & EMPENNAGE**

Baggage Door . . . . . SECURE  
Antennas . . . . . SECURE  
Stabilizers . . . . . CHECK CONDITION  
Elevator & Rudder . . . . . CONDITION/OPERATION  
Trim Tabs . . . . . CHECK

**RIGHT WING**

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

**- BEFORE STARTING ENGINE -**

Tow Bar . . . . . STOWED  
Passenger Brief . . . . . COMPLETE  
**(S.A.F.E.T.Y)**  
Seat, Seat Belt, Shoulder Harness . . . . . ADJUST  
Avionics & Electric Switches . . . . . OFF  
Circuit Breakers . . . . . CHECK IN  
Fuel Selector Valve . . . . . RECHECK ON BOTH  
Beacon . . . . . ON  
Navigation Light . . . . . AS REQUIRED

**- STARTING ENGINE -**

Mixture . . . . . NOT FULL RICH (out 1" for altitude)  
Throttle . . . . . OPEN ¼ INCH  
Carb Heat . . . . . COLD  
Prime . . . . . 2-3 TIMES & LOCK  
**(If engine is warm only prime ½ - 1 times)**  
Propeller Area . . . . . CHECK CLEAR  
Master Switch . . . . . BATTERY ON  
Ignition Switch . . . . . START  
(release @ engine start & verify disengaged)  
Throttle . . . . . 1000 RPM or less  
Oil Pressure . . . . . CHECK  
Mixture . . . . . LEAN FOR TAXI

**- AFTER STARTING ENGINE -**

Master Switch . . . . . ALTERNATOR ON  
Wing Flaps . . . . . UP  
Avionics & Headsets . . . . . ON  
ATIS/AWOS . . . . . OBTAIN  
Clearance . . . . . OBTAIN (As Necessary)  
Transponder . . . . . ALT, SET CODE

**- BEFORE TAXI -**

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

**- BEFORE TAKEOFF -**

Nose Wheel . . . . . STRAIGHT  
Parking Brake . . . . . SET  
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**  
Throttle . . . . . SET 1800 RPM  
Mixture . . . . . RICH or SET FOR ALTITUDE  
Magnetos . . . . . CHECK (175 max, 50 diff)  
Carb Heat . . . . . CHECK  
Vacuum Guage . . . . . CHECK  
Engine Instruments . . . . . CHECK  
Ammeter . . . . . CHECK GAUGE & LIGHT  
Throttle . . . . . CHECK IDLE  
Throttle . . . . . 1000 RPM or less  
**Throttle . . . . . CHECK FRICTION LOCK**  
Wing Flaps . . . . . SET FOR TAKEOFF  
Trim Controls . . . . . VERIFY TAKEOFF  
Radios (Comm & Nav) . . . . . SET  
Transponder . . . . . ALT  
Parking Brake . . . . . RELEASE  
Landing, Strobe Lights . . . . . AS NEEDED  
Takeoff Clearance . . . . . OBTAIN/ANNOUNCE