



## CESSNA 172S CHECKLIST

### PREFLIGHT

#### INTERIOR

CONTROL WHEEL LOCK ..... REMOVE  
 ARROW DOCUMENTS ..... CHECK  
 MAGNETOS ..... OFF  
 AVIONICS SWITCH ..... OFF  
 MASTER SWITCH ..... ON  
 FUEL QUANTITY ..... CHECK  
 EXTERIOR LIGHTS ..... CHECK  
 FLAPS ..... DOWN  
 MASTER SWITCH ..... OFF  
 ALT STATIC ..... OFF  
 FUEL SELECTOR ..... BOTH  
 FUEL SHUTOFF ..... ON  
 FIRE EXTINGUISHER ..... CHECK

#### EMPENNAGE

BAGGAGE DOOR ..... CLOSED  
 HORIZONTAL STABILIZER ..... CHECKED  
 VERTICAL STABILIZER ..... CHECKED  
 ELEVATOR ..... CHECK  
 RUDDER ..... CHECK  
 TAIL TIE DOWN ..... REMOVE  
 SKID PLATE ..... CHECK  
 ELEVATOR TRIM TAB ..... CHECK  
 ANTENNAS ..... CHECK

#### RIGHT WING

FLAP ..... CHECK  
 AILERON ..... CHECK  
 WINGTIP ..... CHECK  
 LEADING EDGE ..... CHECK  
 TIEDOWN ..... REMOVE  
 TIRE ..... CHECK TRED/BALD SPOTS  
 BRAKE ..... CHECK  
 FUEL SUMPS ..... DRAIN  
 FUEL QUANTITY ..... VISUALLY VERIFY  
 FUEL FILLER CAP ..... SECURE

#### NOSE

WINDSCREEN ..... CHECK  
 FUEL SUMPS ..... DRAIN

OIL LEVEL ..... CHECK  
 OIL DOOR ..... CLOSED  
 ENGINE AIR INLETS ..... CHECK  
 PROPELLER & SPINNER ..... CHECK  
 ALTERNATOR BELT ..... CHECK  
 AIR FILTER ..... CHECK  
 TIRE ..... CHECK  
 STRUT ..... CHECK  
 STATIC PORT ..... CHECK

#### LEFT WING

FUEL SUMPS ..... DRAIN  
 FUEL QUANTITY ..... CHECK  
 FUEL FILLER CAP ..... SECURE  
 PITOT TUBE COVER ..... REMOVE  
 PITOT TUBE ..... CHECK  
 STALL HORN OPENING ..... CHECK  
 FUEL TANK VENT ..... CHECK  
 TIEDOWN ..... REMOVE  
 LEADING EDGE ..... CHECK  
 WINGTIP ..... CHECK  
 AILERON ..... CHECK  
 FLAP ..... CHECK  
 TIRE ..... CHECK  
 BRAKE ..... CHECK

#### BEFORE ENTERING AIRCRAFT

ALL TIEDOWNS ..... CHECK REMOVED  
 CHALKS ..... CHECK REMOVED AND OUT OF PATH  
 PITOT COVER ..... CHECK REMOVED  
 SURROUNDING AREA ..... CLEAR OF OBSTRUCTIONS

### NORMAL PROCEDURES

#### BEFORE START

PREFLIGHT INSPECTION ..... COMPLETE  
 PASSENGER BRIEFING ..... COMPLETE  
 SEATS & SEAT BELTS ..... ADJUSTED & FASTENED  
 FUEL SELECTOR ..... BOTH  
 FUEL SHUTOFF ..... ON  
 CIRCUIT BREAKERS ..... CHECK  
 FLIGHT CONTROLS ..... PROPER OPERATION  
 MASTER SWITCH ..... OFF  
 AVIONICS SWITCH ..... OFF  
 MASTER SWITCH ..... ON  
 BEACON ..... ON  
 NAV LIGHTS ..... AS REQUIRED

#### ENGINE START

THROTTLE ..... 1/4" OPEN  
 FUEL PUMP ..... ON  
 MIXTURE ..... FULL RICH 3-5 SECONDS, IDLE CUTOFF

#### IF HOT START - DO NOT PRIME

PROPELER AREA ..... CLEAR  
 BRAKES ..... HOLD  
 MAGNETOS ..... START

MIXTURE ..... ADVANCE  
 THROTTLE ..... 1000 RPM  
 OIL PRESSURE ..... CHECK GREEN  
 AMPS ..... POSITIVE CHARGE  
 ANNUNCIATORS ..... EXTINGUISHED  
 MIXTURE ..... LEAN  
 FLAPS ..... RETRACT

#### AFTER START/BEFORE TAXI

AVIONICS ..... ON  
 GPS DATABASE ..... VERIFY CURRENCY  
 COMMS ..... SET  
 ATIS/AWOS ..... OBTAIN  
 ALTIMETER ..... SET  
 FLIGHT PLAN ..... SET  
 TRANSPONDER ..... 1200/ASSIGNED  
 TAXI CLEARANCE ..... OBTAINED

#### WHILE TAXIING

**\*BRIEF PRIOR TO RELEASING BRAKES AND COMPLETE WHILE TAXIING\***  
 TAXI ..... BRIEF  
 TAXI LIGHT ..... ON  
 BRAKES ..... TEST  
 STEERING ..... CHECKED  
 FLIGHT INSTRUMENTS ..... CHECKED

#### RUN UP

BRAKES ..... HOLD  
 MIXTURE ..... FULL RICH  
 THROTTLE ..... 1800 RPM  
 MAGNETOS ..... CHECK DROP  
 VACUUM ..... CHECK  
 OIL TEMPERATURE ..... CHECK  
 OIL PRESSURE ..... CHECK  
 AMPS/VOLTS ..... CHECK  
 THROTTLE ..... IDLE THEN 1000 RPM

#### BEFORE TAKEOFF

DEPARTURE BRIEFING ..... COMPLETE  
 FLIGHT INSTRUMENTS ..... CHECK  
 STANDBY INSTRUMENTS ..... CHECK  
 FUEL SELECTOR ..... BOTH  
 ENGINE INDICATIONS ..... CHECK  
 SEAT BACKS ..... ERECT  
 SEATS ..... ADJUSTED AND LOCKED IN POSITION  
 SEAT BELTS ..... FASTENED  
 FLAPS ..... SET  
 ELEVATOR TRIM ..... TAKEOFF  
 CONTROLS ..... FREE AND CORRECT  
 DOOR AND WINDOW ..... LATCHED  
 LIGHTS ..... AS REQUIRED  
 PITOT HEAT ..... AS REQUIRED

**CLIMB (1,000FT AGL)**

SPEED .....75-85 KIAS  
 FLAPS .....RETRACTED  
 ENGINE INSTRUMENTS.....CHECK

**CRUISE**

THROTTLE .....SET PER POWER TABLE  
 MIXTURE .....LEAN AS REQUIRED  
 ENGINE INSTRUMENTS .....CHECKED  
 LIGHTING .....AS REQUIRED

**DESCENT/BEFORE LANDING**

ATIS/AWOS.....OBTAIN  
 ALTIMETER .....SET  
 COMMS/NAV RADIOS & AVIONICS .....CHECKED & SET  
 APPROACH .....BRIEFED  
 SEAT BACKS .....ERECT  
 SEAT BELTS .....FASTENED  
 MIXTURE .....FULL RICH  
 LIGHTING .....AS REQUIRED  
 PARK BRAKE .....VERIFY OFF  
 TOE BRAKES .....DEPRESS TO CHECK

**AFTER LANDING**

COMMS .....MONITOR GROUND (WHEN APPLICABLE)  
 FLAPS .....RETRACT  
 MIXTURE .....LEAN  
 PITOT HEAT .....OFF  
 LIGHTING .....AS REQUIRED

**SHUTDOWN**

AVIONICS SWITCH .....OFF  
 ELECTRICAL SWITCHES (EXCEPT BEACON) .....OFF  
 THROTTLE .....IDLE  
 MAGNETOS .....GROUND CHECK  
 THROTTLE .....1200 RPM  
 MIXTURE .....IDLE CUTOFF  
 THROTTLE .....CLOSED  
 MAGNETOS.....OFF  
 KEY .....OUT OF IGNITION  
 INTERIOR LIGHTS.....OFF  
 MASTER SWITCH.....OFF  
 CONTROL LOCK .....INSTALLED  
 PITOT COVER, COWL PLUGS.....INSTALLED  
 TIEDOWNS .....SECURED  
 HOBBS/TACH TIME.....RECORDED  
 DISPATCH LOG .....COMPLETED

**EMERGENCY PROCEDURES****POWER LOSS IN FLIGHT**

AIRSPEED .....68 KIAS  
 BEST FIELD  
 FUEL SHUTOFF VALVE.....ON  
 AUX FUEL PUMP .....ON  
 MIXTURE.....FULL RICH  
 FUEL SELECTOR.....CHECK/BOTH  
 MAGNETOS .....CHECK ALL (START IF PROP STOPPED)  
 AUX FUEL PUMP .....OFF

**IF NO RESTART & TIME PERMITS**

AIRSPEED .....68 KIAS  
 TRANSPONDER .....7700  
 ATC .....DECLARE EMERGENCY  
 FUEL SHUTOFF .....OFF  
 MIXTURE .....IDLE CUTOFF  
 FLAPS .....AS REQUIRED  
 MASTER & MAGNETOS .....OFF  
 DOORS.....UNLATCHED

**ELECTRICAL FIRE IN FLIGHT**

ALL ELECTRICAL + MASTER .....OFF  
 VENTS/HEAT/AIR .....CLOSED  
 AVIONICS MASTER.....OFF

**IF FIRE OUT**

MASTER.....ON IF CRITICAL  
 ESSENTIAL ELECTRICAL .....ON ONE AT A TIME  
 CIRCUIT BREAKER(S).....RESET IF CRITICAL

**ENGINE FIRE IN FLIGHT**

MIXTURE .....IDLE CUTOFF  
 FUEL SHUTOFF .....OFF  
 AUX FUEL PUMP .....OFF  
 MASTER .....OFF  
 CABIN HEAT/AIR .....OFF  
 AIRSPEED .....>100 KIAS TO EXTINGUISH

**LAND AS SOON AS POSSIBLE****ENGINE FIRE DURING START**

STARTER .....CONTINUE CRANKING

**IF START**

THROTTLE .....1800 RPM FOR A FEW MINUTES  
 ENGINE .....SHUTDOWN & INSPECT DAMAGE

**IF NO START**

MIXTURE .....IDLE CUTOFF  
 FUEL VALVE .....OFF  
 THROTTLE.....FULL OPEN  
 STARTER.....CONTINUE CRANKING  
 MASTER .....OFF  
 MAGNETOS.....OFF

**EVACUATE!****ABNORMAL PROCEDURES CAN BE FOUND IN THE POH**

**ATLANTIC: 129.00**  
**RJC (ECHO): 131.40**

**V<sub>SO</sub> : 40 KIAS**  
**V<sub>S1</sub> : 48 KIAS**  
**V<sub>r</sub> : 55 KIAS**  
**V<sub>x</sub> : 62 KIAS**  
**V<sub>g</sub> (max gross) : 68 KIAS**  
**V<sub>y</sub> : 74 KIAS**  
**V<sub>a</sub> (1900 lbs) : 90 KIAS**  
**V<sub>a</sub> (max gross) : 105 KIAS**  
**V<sub>NO</sub> : 129 KIAS**  
**V<sub>NE</sub> : 163 KIAS**  
**V<sub>FE</sub> (10° flaps) : 110 KIAS**  
**V<sub>FE</sub> (20° - FULL flaps) : 85 KIAS**

**SHORT FIELD TAKEOFF**

10° Flaps - Rotate at 50 KIAS - Climb at barrier speed  
 until clear of obstacle - accelerate to V<sub>y</sub>

**SOFT FIELD TAKEOFF**

10° Flaps - Full back pressure - Rotate at slowest speed  
 - accelerate to V<sub>y</sub> in ground effect

**THIS CHECKLIST IS FOR CONVENIENCE ONLY AND DOES NOT REPLACE THE POH. USE IS AT THE OWN RISK OF THE PILOT IN COMMAND.**