Bridgewater State University
Cessna 172 Normal Procedures Checklist

PREFLIGHT

CABIN
AROW........................................CHECK
Parking Brake....................SET
Control Lock......................REMOVE
All Switches...............OFF/Safe/NORMAL
Fuel Selector......................BOTH
Fuel Shutoff......................PUSHED IN
Alt Static.........................PULL NOTE CHANGE
Alt Static.........................PUSH IN
Master Switch..............ON
Lights/Pilot Heat...........ON
Flaps......................DOWN
Avionics Switch....ON LISTEN FOR FAN
Avionics Switch....OFF
Annunciator Lights........TEST
Fuel Quantity.................CHECK
Check Lights/Pilot...........WORKING
Electrical Switches........OFF
Master Switch..............OFF
Hobs & Tach................CHECK

EMPENNAGE
Baggage Door..............SECURE
Antennas.........................CHECK
Control Surfaces............CHECK
Rudder Gust Lock............REMOVE
Tail Tie Down...............REMOVE
Trim Tab........................CHECK

RIGHT WING
Flap............................CHECK
Aileron.........................CHECK
Wing Tip.........................CHECK
Wing Tip Down................CHECK
Main Wheel....................CHECK
Fuel Tank Sumps.................CHECK
Fuel Quantity.............CHECK VISUALLY
Fuel Cap..........................SECURE

NOSE
Fuel Sumps (3)..................CHECK
Engine Oil........................CHECK
Nose Wheel & Strut..........CHECK
Engine Cooling Vents.......CHECK
Propeller & Spinner........CHECK
Static Source....................CHECK

LEFT WING
Fuel Quantity.................CHECK
Fuel Sumps (5)..................CHECK
Fuel Cap..........................SECURE
Main Wheel.........................CHECK
Pilot Tube Cover..............REMOVE
Pilot Tube.........................CHECK
Stall Warning.................CHECK OPEN
Fuel Vent........................CHECK
Wing Tie Down...............UNITE
Landing Lights...............CHECK
Wing Tip.........................CHECK LIGHTS
Aileron.........................CHECK
Flap..........................CHECK

ENGINE START
Throttle............................¼” OPEN
Mixture..............................IDLE CUTOFF
Propeller Area..................."CLEAR"
Master Switch.....................ON
Beacon........................ON
Warm Start..............PRIME AS REQUIRED

COLD START ONLY
Fuel Pump..........................ON
Mixture.............................Note Fuel Flow
Mixture..............................IDLE CUTOFF
Fuel Pump..........................OFF

FTER START
Throttle.........................1000 RPM
Oil Pressure................GREEN
Lights.............................AS REQUIRED
Avionics Master.................ON

BEFORE TAXI
Flaps......................UP (VERIFY)
Radios..........................SET
Transponder.................STANDBY SET
Flight Instruments.........SET
Flights Controls........FREE & CORRECT

TAXI
Brakes........................TEST
Flight Instruments........CHECK

RUN – UP
Brakes........................ON
Fuel Selector..................BOTH
Mixture..........................RICH
Engine Gauges...............GREEN
Throttle.........................1800 RPM
Mags..........................CHECK
Engine Gauges...............CHECK
Annunciator Panel.........CLEAR
Throttle.........................IDLE
Throttle........................1000 RPM
Departure Brief.................COMPLETE

DESEND
Throttle.........................ON
Fuel Selecto..................BOTH
Mixture..........................RICH
Engine Gauges...............GREEN
Throttle.........................1800 RPM
Mags..........................CHECK
Engine Gauges...............CHECK
Annunciator Panel.........CLEAR
Throttle.........................IDLE
Throttle........................1000 RPM
Departure Brief.................COMPLETE

BEFORE LANDING
Fuel Selecto..................BOTH
Mixture..........................RICH
Lights.............................ON
Seats & Seatbelts..........SECURE

AFTER LANDING
Flaps........................RETRACT
Transponder..................STANDBY
Elevator Trim..............SET
Lights.............................AS REQUIRED

SHUT DOWN
Brakes........................SET
Throttle.........................1000 RPM
Transponder.................STANDBY
Avionics Master............OFF
Mixture..........................IDLE CUTOFF
Ignition Switch..............OFF
Master Switch..............OFF
Electrical Switches........OFF
Control Lock................INSTALL
Pilot Tube Cover............INSTALL
Hobs & Tach.................RECORD

V – SPEEDS -- KIAS
VX........57 (10° Flaps)
Vx........60 Va @ 2450........99
Vy........79 @ 2000........92
Vso........33 @ 1600........82
Vs........44 Best Glide.....65

CRUISE
Power..........................SET
Mixture..........................LEAN
Lights.............................AS REQUIRED

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### ENGINE FAILURES

**DURING TAKE OFF ROLL**
- Throttle: IDLE, APPLY
- Brakes: APPLY
- Wing Flaps: RETRACT
- Mixture: IDLE CUTOFF
- Ignition Switch: OFF
- Master Switch: OFF

**IMMEDIATELY AFTER TAKEOFF**
- Airspeed: 65 (Flaps UP), 60 (Flaps DOWN)
- Fuel Shutoff: OFF
- Ignition Switch: OFF
- Wing Flaps: AS REQUIRED
- Master Switch: OFF
- Cabin Door: UNLATCH
- Land: STRAIGHT AHEAD

**DURING FLIGHT (Restart)**
- Airspeed: 65
- Fuel Pump: ON
- Fuel Selector: BOTH
- Mixture: RICH
- Ignition Switch: BOTH

**FORCED LANDINGS**
- Seat Backs: UPRIGHT
- Seat Belts: SECURE
- Airspeed: 65 (Flaps UP), 60 (Flaps DOWN)
- Fuel Pump: OFF
- Mixture: IDLE CUTOFF
- Shutoff Valve: OFF
- Ignition Switch: OFF
- Wing Flaps: AS REQUIRED
- Master Switch: OFF
- Doors: UNLATCH
- Touchdown: TAIL LOW
- Brakes: APPLY HEAVILY

### FIRES

**DURING START**
- Ignition Switch: START
- If Engine Starts-
  - Power: 1700 for a few min
- Engine: SHUTDOWN
  - If Engine Fails to Start-
    - Throttle: FULL OPEN
    - Mixture: IDLE CUTOFF
    - Cranking: CONTINUE
    - Shutoff Valve: OFF
    - Fuel Pump: OFF
    - Fire Extinguisher: OBTAIN
    - Engine: SECURE
      - A. Master SW: OFF
      - B. Ignition SW: OFF
    - Parking Brake: RELEASE
    - Airplane: EVACUATE
    - Fire: EXTINGUISH
    - Fire Damage: INSPECT

**ENGINE FIRE INFLIGHT**
- Mixture: IDLE CUTOFF
- Shutoff Valve: OFF
- Fuel Pump: OFF
- Master Switch: OFF
- Cabin Heat & Air: OFF
- Airspeed: 100 KTS
- Forced Landing: EXECUTE

**ELECTRICAL FIRE**
- Master Switch: OFF
- Vents/Cabin Air/Heat: CLOSED
- Fire Extinguisher: ACTIVATE
- Avionics Master: OFF
- All Switches: OFF
- Vents/Cabin Air/Heat: OPEN
- Master SW: ON
- Circuit Breakers: CHECK
- Radio Switches: OFF
- Avionics Master SW: ON
- Radio/Electrical SW: OFF

**WING FIRE**
- Lights Switches: OFF
- Pitot Heat SW: OFF
- Fuel Selector: OPPOSITE FIRE

**ELECTRICAL POWER SUPPLY SYSTEM MALFUNCTIONS**

**EXCESSIVE RATE OF CHARGE**
- Alternator: OFF
- Nonessential Elec Equip: OFF
- Flight: LAND ASAP

**LOW VOLT ILLUMINATES IN FLIGHT**
- Avionics Master: OFF
- Alternator CB: CHECK IN
- Master Switch: OFF
- Master Switch: ON
- Low Volts ANN: CHECK OFF
- Avionics Master: ON
  - If Low Volts Ann Illuminates Again-
    - Alternator: OFF
    - Nonessential Elec Equip: OFF
    - Flight: LAND ASAP

**VACUUM SYSTEM FAILURE**
- Check Guage: CHECK