

Bridgewater State College

Cessna 172

Normal Procedures Checklist

11/19/2009 REV I

V/R AIRCRAFT ACCEPTANCE

Aircraft Surfaces CLEAR
Windows/Windscreen CLEAN/NO DAMAGE
Maintenance Status VERIFIED/CLEARED
Hobbs Meter RECORDED
Tachometer Time RECORDED
Carbon Monoxide Detector CHECKED
Fire Extinguisher CHARGED/SECURED
Aircraft Documents CHECKED
Aircraft Cabin Area CLEAN/NO DAMAGE
A/C Acceptance Checklist COMPLETE

N/R PRE-FLIGHT INSPECTION

^B Control Lock REMOVED
Flight Controls FREE/CORRECT
^B Parking Brake SET
Ignition Switch OFF
Battery/Master Switches OFF
All Electrical Switches OFF
Flaps UP
^B Throttle IDLE
^B Mixture IDLE CUT-OFF
Battery Master Switch ON
Fuel CHECK GAUGES
Avionics Master Switch ON
Comm/Nav Radios CHECKED
ELT OFF
Avionics Master Switch OFF
Cabin/Exterior Lights CHECKED
^B Caution/Warning Lights TEST
Stall Warning Horn CHECKED
Pitot Heat CHECKED
Alternate Static Source NORMAL
^B Circuit Breakers CHECKED/IN
^B Flaps DOWN
Fuel Selector BOTH
Battery Master Switch OFF

LEFT WING

Fuel Sump DRAIN
Flap SECURE, NO DAMAGE
Aileron & Static Wicks CHECKED
Wing Tip CHECKED
^B Strobe, Nav Light CHECKED
Wing Leading Edge CHECKED
Wing Inspection Plates SECURE
^B Landing/Taxi Lights CHECKED
^B Fuel Tank Vent UNOBSTRUCTED
^B Tie Down REMOVED/STOWED
^B Pitot Tube UNOBSTRUCTED
Stall Warning Vane TEST
^B Fuel Cap CHECKED/SECURE
^B Landing Gear/Strut CHECKED
^B Brake Assembly CHECKED

NOSE

^B Static Source CHECKED
Cowling NO DAMAGE
Propeller/Spinner CHECKED
Alternator/Belt CHECKED
^B Cowl Intakes UNOBSTRUCTED
Baffles SECURE/NO DAMAGE
^B Nose Gear CHECKED
Fuel Sump DRAIN
Aux. Power Receptacle Cover SECURE
^B Engine Oil Level CHECKED
^B Oil Dipstick REPLACED/SECURE
Oil Door CLOSED/SECURE

RIGHT WING

^B Tie Down REMOVED/STOWED
Wing Inspection Plates SECURE
^B Fuel Tank Vent UNOBSTRUCTED
^B Wing Leading Edge CHECKED
Wing Tip CHECKED
^B Strobe, Nav Light CHECKED
Aileron & Static Wicks CHECKED
Flap SECURE, NO DAMAGE
Fuel Sump DRAIN
Fuel Cap CHECKED/SECURE
^B Landing Gear/Strut CHECKED
^B Brake Assembly CHECKED

FUSELAGE, RIGHT

Door/Latch CHECKED/SECURE
Comm/Nav Antennas SECURE/NO DAMAGE
Fuselage CHECKED

EMPENNAGE

Horizontal Stabilizer (R/L) CHECKED
Elevator (R/L) CHECKED
Elevator Static Wick (R/L) ATTACHED
Trim Tabs CHECKED/SECURE
Rudder CHECKED
Rudder Static Wicks ATTACHED
^B Tie Down REMOVED/STOWED

FUSELAGE, LEFT

Fuselage CHECKED
Door/Latch CHECKED/SECURE
Pre-Flight Inspection Checklist COMPLETE

C/R BEFORE ENGINE START

Aircraft Acceptance Check COMPLETE
Pre-Flight Inspection COMPLETE
Passenger Briefing COMPLETE
Seats/Belts/Harnesses CHECKED/LATCHED
Parking Brake SET
Avionics Master OFF
Circuit Breakers CHECKED/IN
Fuel Selector BOTH
Before Engine Start Checklist COMPLETE

C/R ENGINE START

External Lights AS REQUIRED
Battery Master ON
Propeller Area VERIFY L/C/R CLEAR
(NORMAL)
Fuel Shutoff Valve ON
Throttle OPEN ¼ INCH
Aux. Fuel Pump ON
Mixture AS REQUIRED
Aux. Fuel Pump OFF
Starter ENGAGE
Mixture RICH
Throttle SET 800 – 1000 RPM
Oil Pressure CHECK
Avionics Master ON
Electrical System CHECK
Flaps UP
Engine Instruments CHECK
Engine Start Checklist COMPLETE

C/R	TAXI
Avionics.....	SET AS REQUIRED
Transponder.....	SET STBY
Taxi Area.....	VERIFY L/C/R CLEAR
Parking Brake.....	RELEASE
Brakes and Steering.....	CHECKED
Flight Instruments.....	CHECKED
Taxi Checklist.....	COMPLETE

C/R	BEFORE TAKEOFF
Heading.....	INTO WIND
Parking Brake.....	SET
Fuel Selector.....	BOTH
Fuel Quantity.....	VERIFY
Cabin Heat/Defrost.....	AS REQUIRED
Flight Controls.....	FREE/CORRECT
Brakes.....	HOLD

RUN-UP CHECK

Mixture.....	RICH
Throttle.....	1800 RPM
Engine Instruments.....	CHECKED
Vacuum (If Installed).....	4.5 – 5.5 Hg
Caution/Warning Lights.....	CHECKED
Magnetos.....	CHECKED
Throttle.....	IDLE
Mixture.....	LEAN

AFTER RUN-UP CHECK

Throttle Friction.....	SET
Trim.....	SET TAKEOFF
Flight Instruments.....	SET
Navigation Radios/GPS.....	SET TAKEOFF
Departure Briefing.....	COMPLETE
Taxi Route.....	OBTAIN/VERIFY
Parking Brake.....	RELEASE
Before Takeoff Checklist.....	COMPLETE

V/R	LINE-UP
Doors.....	CLOSED/LATCHED
Flight Instruments.....	CHECKED
Engine Instruments.....	CHECKED
Trim.....	SET/CHECKED
Flaps.....	SET/CHECKED
Heading.....	SET TAKEOFF RWY

AFTER CLEARED ON TO RUNWAY

External Lights.....	AS REQUIRED
Transponder.....	SET ALT
Mixture.....	FULL RICH
Time Off.....	NOTE
RWY Alignment.....	SET/VERIFY
Line-Up Checklist.....	COMPLETE

V/R	CLIMB
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^R Climb Power.....	SET
Mixture.....	FULL RICH
^R Flaps.....	UP
^R Engine Instruments.....	CHECKED
^R Transponder.....	VERIFY ALT
Climb Checklist.....	COMPLETE

V/R	CRUISE
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Cruise Power.....	SET
Mixture.....	LEAN AS REQUIRED
Engine Instruments.....	CHECK
Trim.....	AS REQUIRED
Heading Indicator/Compass.....	CHECK
External Lights.....	AS REQUIRED
Cruise Checklist.....	COMPLETE

V/R	DESCENT
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Seats/Belts/Harnesses.....	CHECKED
Mixture.....	ADJUST W/DESCENT
Throttle.....	AS REQUIRED
Descent Checklist.....	COMPLETE

C/R	APPROACH
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^R Approach Briefing.....	COMPLETE
Fuel Selector.....	BOTH
External Lights.....	AS REQUIRED
Parking Brake.....	VERIFY RELEASED
^R Approach Checklist.....	COMPLETE

C/R	BEFORE LANDING
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^R Mixture.....	FULL RICH
^R Flaps.....	AS REQUIRED
^R Landing Light.....	ON
^R Before Landing Checklist.....	COMPLETE

C/R	GO-AROUND
Pitch.....	LEVEL ATTITUDE
Power.....	SMOOTHLY TO FULL
Pitch.....	POSITIVE CLIMB ATTITUDE
Flaps.....	AS REQUIRED
Airspeed.....	AS REQUIRED
Flaps.....	UP
Go-Around Checklist.....	COMPLETE

V/R	AFTER LANDING
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Throttle.....	800 - 1000 RPM
Mixture.....	LEAN
Flaps.....	UP
External Lights.....	AS REQUIRED
Pitot Heat.....	OFF
Transponder.....	SET STDBY
Time On.....	NOTE
Taxi Route.....	OBTAIN/VERIFY
After Landing Checklist.....	COMPLETE

V/R	PARKING AND SECURING
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Parking Brake.....	SET
Throttle.....	IDLE
Avionics Master.....	OFF
Magnetos.....	GROUND CHECK
Mixture.....	IDLE CUT-OFF
Magnetos.....	OFF
Battery Master Switch.....	OFF
Fuel Selector.....	LEFT or RIGHT
Lights/Electrical Switches.....	OFF
Parking Brake.....	RELEASED
Control Lock.....	INSTALLED
Hobbs/Tachometer Times.....	RECORDED
Windows/Doors.....	SECURED
Tie Downs.....	SECURED
Post-Flight Inspection.....	COMPLETE
Parking & Securing Checklist.....	COMPLETE

REFERENCE AIRSPEEDS

Best Angle of Climb V_X	60 KIAS
Best Rate of Climb V_Y	79 KIAS
Maneuvering Range V_A	82 - 99 KIAS
Flap Operating V_A	110 (10 ⁰) - 85 KIAS (Full)
Max. Structural Cruise V_{NO}	129 KIAS
Never Exceed Speed V_{NE}	163 KIAS
Approach/Landing.....	60-70 KIAS/AS REQUIRED