



Bridgewater State University

PA-28R-200 ARROW Normal Procedures Checklist 1/18/2011 REV III

V/R AIRCRAFT ACCEPTANCE

Aircraft Surfaces CLEAR/CORRECT
 Maintenance Status VERIFIED/CLEARED
 Hobbs/Tach Times RECORDED
 Aircraft Documents CHECKED
 Carbon Monoxide Detector CHECKED
 Fire Extinguisher CHARGED/SECURED
 Aircraft Cabin Area CLEAN/NO DAMAGE
 A/C Acceptance Checklist COMPLETE

N/R PRE-FLIGHT INSPECTION/AWA

CABIN

Flight Controls FREE/CORRECT
 Parking Brake SET
 Ignition/Electrical/Master Switches OFF
 ELT ARMED
 Gear Handle DOWN
 Throttle IDLE
 Mixture IDLE CUT-OFF
 Battery Master Switch ON
 Landing Gear Lights 3 GREEN/NO RED
 Fuel Selector/Quantity LOWEST TANK/VERIFY
 Comm/Nav Radios CHECKED
 Cockpit/Exterior Lights/Pitot Heat CHECKED/OFF
 Stall Warning Vane CHECKED
 Battery Master Switch OFF
 Circuit Breakers CHECKED
 Flaps DOWN

RIGHT WING

Flap, Aileron, Hinges, Static Wicks CHECKED
 Wing Tip/Lights CHECKED
 Wing Leading Edge/Inspection Plates CHECKED
 Fuel Tank Vent UNOBSTRUCTED
 Tie Down REMOVED/STOWED
 Fuel Tank Sump DRAIN
 Landing Gear, Main CHECKED
 Fresh Air Inlet UNOBSTRUCTED
 Fuel Level and Cap CHECKED/SECURE

NOSE

Oil Level CHECKED
 Oil Door SECURE
 Cowling/Intakes/Baffles NO DAMAGE/SECURE
 Alternator/Belt CHECKED
 Propeller & Spinner CHECKED
 Landing Light CHECKED
 Landing Gear, Nose CHECKED
 Intake Hoses CHECKED
 Fuel Strainer DRAIN

LEFT WING

Fresh Air Inlet UNOBSTRUCTED
 B.G.E. Mast (If Installed) CHECKED
 Landing Gear, Main CHECKED
 Fuel Tank Sump DRAIN
 Wing Leading Edge/Inspection Plates SECURE
 Tie Down REMOVED/STOWED
 Fuel Tank Vent UNOBSTRUCTED
 Fuel Level & Cap CHECKED/SECURE
 Pitot Mast CHECKED
 Wing Tip/Lights CHECKED
 Aileron, Flap, Hinges, Static Wicks CHECKED

FUSELAGE, LEFT

Antennas SECURE/NO DAMAGE
 Air Inlets UNOBSTRUCTED
 Static Port, Left CLEAR
 Empennage CHECKED
 Stabilator/Servo Tab/Rudder CHECKED
 Tie Down REMOVED/STOWED

FUSELAGE, RIGHT

Stabilator/Servo Tab CHECKED
 Battery Box Vent/Drains UNOBSTRUCTED
 Static Port, Right CLEAR
 External Power Receptacle CHECKED
 Landing Gear Pump CHECKED
 Baggage Area / Door CHECKED/SECURE
 Pre-Flight Inspection/AWA COMPLETE

C/R BEFORE ENGINE START

Aircraft Acceptance/Pre-Flight AWA COMPLETE
 Passenger Briefing COMPLETE
 Seats/Belts/Harnesses CHECKED/LATCHED
 Trim (2) /Flaps SET/UP
 Alternate Air CLOSED
 Propeller FULL INCREASE
 Parking Brake SET
 Before Engine Start Checklist COMPLETE

C/R ENGINE START

External Lights AS REQUIRED
 Battery Master/Alternator Switch ON
 (NORMAL)
 Throttle OPEN 1/2 INCH
 Fuel Pump ON
 Mixture RICH, Note FF, IDLE CUT-OFF
 Propeller Area VERIFY L/C/R CLEAR
 Starter ENGAGE
 Mixture FULL FORWARD
 Throttle 800--1000 RPM
 Oil Pressure CHECK

(HOT START)

Throttle OPEN 1/2 INCH
 Fuel Pump ON
 Mixture IDLE CUT-OFF
 Propeller Area VERIFY L/C/R CLEAR
 Starter ENGAGE
 Mixture FULL FORWARD
 Throttle 800--1000 RPM
 Oil Pressure CHECK

COMPLETE FOR ALL STARTS

Avionics Master ON
 Fuel Pump OFF
 Mixture LEAN for TAXI
 Engine Instruments CHECKED
 Engine Start Checklist COMPLETE

C/R AFTER START-UP

Avionics Master ON
 Electrical System CHECK
 Engine Instruments CHECK
 Avionics/Transponder SET DEPARTURE
 External Lights/Pitot Heat AS REQUIRED
 Flight Instruments/DG CHECK/ALIGN
 Taxi Area VERIFY L/C/R CLEAR
 Brakes RELEASE/CHECK
 After Start-Up Checklist COMPLETE



C/R RUN-UP/ BEFORE TAKEOFF

Fuel Selector/Quantity SWITCH TANKS/VERIFY
Flight Controls FREE/CORRECT
Flaps SET/CHECKED
Trim SET/CHECKED
Brakes HOLD
Mixture RICH
Throttle 2000 RPM
Engine Instruments CHECKED
Propeller EXERCISE
Alternate Air CHECKED
Vacuum 4.9 – 5.1 Hg
Magnetos CHECKED
Ammeter CHECKED
Throttle/Quadrant Friction IDLE CHECK/SET

AFTER RUN-UP CHECK

Aux. Vacuum (If Installed) CHECKED/OFF
Departure Briefing COMPLETE
Taxi Route OBTAIN/VERIFY

AT RUNWAY

Flight Instruments SET TAKEOFF
Engine Instruments CHECKED
Transponder SET/ALT
Fuel Pump ON
External Lights/Pitot Heat AS REQUIRED
Propeller FULL INCREASE
Mixture FULL RICH
Alternate Air CLOSED
Door/Window CLOSED/LATCHED
RWY Alignment CHECKED
Before Takeoff Checklist COMPLETE

V/R CLIMB

^RLanding Gear UP
^RFlaps UP
Fuel Pump (1000' AGL or Above) OFF
^RClimb Power SET
^REngine Instruments CHECKED
Transponder VERIFY ALT
^RClimb Checklist COMPLETE

V/R CRUISE

Cruise Power/Mixture SET
Engine Instruments CHECK
DG/Compass ALIGN
External Lights/Pitot Heat AS REQUIRED
Cruise Checklist COMPLETE

V/R APPROACH

Altimeter SET
Seats/Seatbelts/Harnesses CHECKED
Mixture ADJUST W/DESCENT
^R Approach Briefing COMPLETE
Gear Warning Horn CHECKED
^R Fuel Pump ON
^R Fuel Selector FULLEST TANK
External Lights/Pitot Heat AS REQUIRED
^R Approach Checklist COMPLETE

C/R GEAR DOWN BEFORE LANDING

^R Landing Gear DOWN/3 GREEN
^R Flaps/Trim SET
^R Mixture/Propeller FULL FORWARD
^R Before Landing Checklist COMPLETE

C/R GO-AROUND

Throttle SMOOTHLY TO FULL
Flaps AS REQUIRED
Airspeed AS REQUIRED
Landing Gear (Out of Usable Rwy) UP
Flaps UP
Go-Around Checklist COMPLETE

C/R REPEATED PATTERN OPS

Fuel Selector/Quantity SELECT/VERIFY
Engine Instruments CHECKED
AT RUNWAY

Fuel Pump ON
Mixture/Propeller FULL FORWARD
Flaps SET/CHECKED
Trim SET/CHECKED
External Lights/Pitot Heat AS REQUIRED
Door/Window CLOSED/LATCHED
Checklist COMPLETE

V/R AFTER LANDING

Throttle 800 – 1000 RPM
Mixture LEAN for TAXI
Fuel Pump OFF
External Lights/Pitot Heat AS REQUIRED
Flaps/Trim SET

FOR FULL STOP

Transponder SET STDBY
Time On NOTE
Taxi Route OBTAIN/VERIFY
After Landing Checklist COMPLETE

V/R PARKING AND SECURING

Throttle IDLE
Parking Brake SET
Avionics Master OFF
Magnetos GROUND CHECK
Mixture IDLE CUT-OFF
Magnetos OFF
Master/Electrical Switches OFF
Parking Brake RELEASE
Hobbs/Tachometer Times RECORDED
Window/Door SECURED
Tie Downs SECURED
Post-Flight Inspection COMPLETE
Parking & Securing Checklist COMPLETE