

Bridgewater State College

PA-28R-200 ARROW Normal Procedures Checklist 6/22/2009 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

CABIN

Flight Controls	FREE/CORRECT
^B Parking Brake	SET
^B Ignition Switch	OFF
^B Battery Master Switch	OFF
Pitot/Static System	DRAIN
ELT	ARMED
Fuel Selector	CHECKED/SET
^B Gear Handle	DOWN
Mixture	IDLE CUT-OFF
Avionics Master	OFF
All Electrical Switches	OFF
^B Battery Master Switch	ON
^B Landing Gear Lights	ALL ON
Fuel Gauges	CHECKED
Annunciator Lights	CHECKED
^B Cockpit/Exterior Lights	CHECKED/OFF
Stall Warning Vane	CHECKED
Pitot Heat	CHECKED/OFF
Comm/Nav Radios	CHECKED
^B Battery Master Switch	OFF
Circuit Breakers	CHECKED
^B Flaps	DOWN

RIGHT WING

Flap, Aileron, Hinges	CHECKED
Static Wicks	CHECKED/SECURE
^B Wing Tip/Lights	CHECKED
Wing Leading Edge	CHECKED

Wing Inspection Plates	SECURE
Fuel Tank Vent	UNOBSTRUCTED
^B Tie Down	REMOVED/STOWED
Fuel Tank Sump	DRAIN
^B Landing Gear, Main	CHECKED
Fresh Air Inlet	UNOBSTRUCTED
^B Fuel Level and Cap	CHECKED/SECURE

NOSE

^B Oil Level/Dipstick	CHECKED/SECURE
^B Oil Filler Cap	SECURE
Oil Door	CLOSED/SECURE
Cowling	NO DAMAGE/SECURE
^B Cowl Intakes	UNOBSTRUCTED
Engine Baffles	CHECKED
Alternator/Belt	CHECKED
^B Propeller & Spinner	CHECKED
^B Landing Light	CHECKED
^B Landing Gear, Nose	CHECKED
Intake Hoses	CHECKED
Fuel Strainer	DRAIN

LEFT WING

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

FUSELAGE, LEFT

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

FUSELAGE, RIGHT

^B Stabilator/Servo Tab	CHECKED
Battery Box Vent/Drains	UNOBSTRUCTED

^B Static Port, Right	CLEAR
External Power Receptacle	CHECKED
Landing Gear Pump	CHECKED
Baggage Area (Tow Bar if Installed)	SECURE
^B Baggage Door	CHECKED/SECURE
^B 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
Flaps	UP
Parking Brake	SET
Avionics Master	OFF
Circuit Breakers	CHECKED/IN
Alternate Air	CLOSED
Propeller	FULL INCREASE
Fuel Selector	LOWEST TANK
Before Engine Start Checklist	COMPLETE

C/R ENGINE START

Battery Master Switch	ON
Alternator Switch	ON
External Lights	AS REQUIRED
(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	CHECKED
(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	CHECKED
COMPLETE FOR ALL STARTS	
Avionics Master	ON
Fuel Pump	OFF
Mixture	LEAN
Engine Instruments	CHECKED
Engine Start Checklist	COMPLETE

C/R	TAXI
Avionics	SET AS REQUIRED
Transponder	VERIFY STBY
External Lights	AS REQUIRED
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	SWITCH TANKS
Fuel Quantity	VERIFY
Cabin Heat/Defrost	AS REQUIRED
Flight Controls	FREE/CORRECT
Brakes	HOLD

RUN-UP CHECK	
Mixture	RICH
Throttle	2000 RPM
Propeller	EXERCISE
Alternate Air	CHECKED
Suction Gauge	4.9 – 5.1 Hg
Caution/Warning Lights	CHECKED
Magnetos	CHECKED
Ammeter	CHECKED
Engine Instruments	CHECKED
Throttle	IDLE
Mixture	LEAN

AFTER RUN-UP CHECK	
Quadrant Friction	SET
Aux. Vacuum (If Installed)	CHECKED/OFF
Flight Instruments	SET
Navigation Radios/GPS	SET TAKEOFF
Trim	SET TAKEOFF
Departure Briefing	COMPLETE
Taxi Route	OBTAIN/VERIFY
Parking Brake	RELEASED
Before Takeoff Checklist	COMPLETE

V/R	LINE-UP
Trim	SET/CHECKED
Flaps	SET/CHECKED
Air Conditioning (If Installed)	OFF
Alternate Air	CLOSED
Propeller	FULL INCREASE

Fuel Pump	ON
Heading Indicator/Compass	CHECKED
Flight Instruments	CHECKED
Engine Instruments	CHECKED
Fuel Selector	FULLEST TANK
Door	CLOSED/LATCHED
<u>AFTER CLEARED ON TO RUNWAY</u>	

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

V/R	CLIMB
R Landing Gear	UP
R Flaps	UP
R Climb Power	SET
R Fuel Pump (1000' AGL or Above)	OFF
R Engine Instruments	CHECKED
R Transponder	VERIFY ALT
R Climb Checklist	COMPLETE

V/R	CRUISE
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
Seats/Seatbelts/Harnesses	CHECKED
Mixture	ADJUST W/DESCENT
Gear Warning Horn	CHECKED
Throttle	AS REQUIRED
Descent Checklist	COMPLETE

C/R	APPROACH
R Approach Briefing	COMPLETE
R Fuel Pump	ON
External Lights	AS REQUIRED
Air Conditioning (If Installed)	OFF
R Fuel Selector	FULLEST TANK
R Parking Brake	VERIFY RELEASED
R Approach Checklist	COMPLETE

C/R	BEFORE LANDING
R Landing Gear	DOWN/3 GREEN
R Flaps	AS REQUIRED
R Mixture	FULL RICH
R Propeller	FULL INCREASE
R Before Landing Checklist	COMPLETE

C/R	GO-AROUND
Pitch	LEVEL ATTITUDE
Propeller	FULL INCREASE
Throttle	FULL FORWARD
Pitch	POSITIVE CLIMB ATTITUDE
Flaps (If Fully Deployed)	SET to 25°
Airspeed	ESTABLISH V _x
Landing Gear (Out of Usable Rwy)	UP
Flaps	RETRACT SLOWLY
Go-Around Checklist	COMPLETE

V/R	AFTER LANDING
Throttle	IDLE
Flaps	UP
Mixture	LEAN
Fuel Pump	OFF
External Lights	AS REQUIRED
Transponder	VERIFY STDBY
Time On	NOTE
Taxi Route	OBTAIN/VERIFY
After Landing Checklist	COMPLETE

V/R	PARKING AND SECURING
Parking Brake	SET
GPS	OFF
Throttle	IDLE
Avionics Master	OFF
Magnetos	GROUND CHECK
Mixture	IDLE CUT-OFF
Magnetos	OFF
ALT/BAT Master Switches	OFF
Lights/Electrical Switches	OFF
Parking Brake	RELEASED
Hobbs/Tachometer Times	RECORDED
Window/Door	SECURED
Tie Downs	SECURED
Post-Flight Inspection	COMPLETE
Parking & Securing Checklist	COMPLETE