

# Bridgewater State College

## PA-28R-200 ARROW EMERGENCY Checklist 6/2/2009 REV I

### V/R ENGINE FIRE DURING START

Ignition.....CONTINUE CRANKING  
Mixture.....IDLE CUT-OFF  
Throttle.....FULL FORWARD  
Fuel Pump.....OFF  
Fuel Selector.....OFF  
Ignition.....OFF  
Battery Master Switch.....OFF  
Fire Extinguisher.....OBTAIN

Aircraft.....EVACUATE  
Fire Extinguisher.....USE  
Checklist.....COMPLETE

### V/R ENGINE FIRE DURING TAKEOFF (BEFORE $V_R$ )

Directional Control.....MAINTAIN  
Throttle.....IDLE  
Brakes.....AS REQUIRED  
Mixture.....IDLE CUT-OFF  
Master Switch.....OFF  
Alternator Switch.....OFF  
Ignition.....OFF  
Fuel Selector.....OFF

Stop.....STRAIGHT AHEAD  
Fire Extinguisher.....OBTAIN  
Aircraft.....EVACUATE  
Fire Extinguisher.....USE  
Checklist.....COMPLETE

### V/R ABORTED TAKEOFF (BEFORE $V_R$ )

Directional Control.....MAINTAIN  
Throttle.....IDLE  
Brakes.....AS REQUIRED  
Stop.....STRAIGHT AHEAD  
Checklist.....COMPLETE

### V/R ENGINE FAILURE BEFORE $V_R$ (USABLE RUNWAY)

Directional Control.....MAINTAIN  
Throttle.....IDLE  
Brakes.....AS REQUIRED  
Stop.....STRAIGHT AHEAD

Shutdown.....EXECUTE  
Checklist.....COMPLETE

### V/R ENGINE FAILURE AFTER $V_R$ (USABLE RUNWAY)

Airspeed.....BEST GLIDE  
Directional Control.....MAINTAIN  
Mixture.....IDLE CUT-OFF  
Ignition Switch.....OFF  
Landing Gear.....DOWN  
Flaps.....AS REQUIRED  
Battery Master Switch.....OFF

Alternator Switch.....OFF  
Fuel Selector.....OFF  
Land.....STRAIGHT AHEAD  
Stop.....STRAIGHT AHEAD  
Checklist.....COMPLETE

### V/R ENGINE FAILURE AFTER $V_R$ (OUT OF USABLE RUNWAY)

Airspeed.....BEST GLIDE  
Directional Control.....MAINTAIN  
RESTART (Time Permitting).....ATTEMPT

#### IF NO TIME / NO RESTART:

Mixture.....IDLE CUT-OFF  
Fuel Selector.....OFF  
All Switches (except Master & Avionics).....OFF  
Radio.....MAYDAY  
ON CURRENT FREQUENCY OR 121.5  
Transponder.....SQUAWK 7700  
Landing Gear.....AS REQUIRED  
Flaps.....AS REQUIRED

Master Switch.....OFF  
Door.....UNLATCH  
Seats/Belts/Harnesses.....SECURED  
Landing.....MINIMUM AIRSPEED  
Checklist.....COMPLETE

### V/R ENGINE POWER LOSS IN FLIGHT

Airspeed.....BEST GLIDE  
Heading.....NEAREST AIRPORT  
Throttle.....CHECK FULL FWD  
Mixture.....RICH  
Alternate Air.....OPEN  
Fuel Pump.....ON  
Fuel Selector.....SWITCH TANKS  
Ignition.....CHECK BOTH - ON

Land.....AS SOON AS POSSIBLE  
Checklist.....COMPLETE

### V/R LOW OIL PRESSURE

Throttle.....MINIMUM REQUIRED  
Heading.....NEAREST AIRPORT  
Land.....AS SOON AS POSSIBLE  
Checklist.....COMPLETE

### V/R ENGINE FAILURE IN FLIGHT/AIR RESTART

Airspeed.....BEST GLIDE  
Fuel Selector.....SWITCH TANKS  
Fuel Pump.....ON  
Mixture.....RICH  
Alternate Air.....OPEN

Engine Gauges.....CHECKED  
Ignition.....CHECK BOTH ON  
(Engage If Propeller Stopped)  
IF NO RESTART:  
Forced Landing Checklist.....EXECUTE  
Checklist.....COMPLETE

### V/R ENGINE FIRE IN FLIGHT

Fuel Selector.....OFF  
Throttle.....IDLE  
Mixture.....IDLE CUT-OFF  
Fuel Pump.....OFF  
Heater/Defroster.....OFF  
If Fire Not Extinguished:  
Emergency Descent.....EXECUTE

Forced Landing Checklist.....EXECUTE  
Checklist.....COMPLETE

**V/R ELECTRICAL FIRE IN FLIGHT**

Master Switches.....OFF  
All Other Switches (except Ignition).....OFF  
Cabin Heat.....CLOSED  
Cabin Air Vents.....OPEN  
Fire Extinguisher .....ACTIVATE

Cabin.....VENTILATE  
Land.....AS SOON AS POSSIBLE  
Checklist.....COMPLETE

**V/R WING FIRE IN FLIGHT**

Pitot Heat.....OFF  
Navigation Lights.....OFF  
Anti-Collision/Strobe Lights.....OFF

Sideslip.....EXECUTE  
Land.....AS SOON AS POSSIBLE  
Checklist.....COMPLETE

**V/R PROPELLER OVERSPEED**

Throttle.....RETARD  
Oil Pressure.....CHECKED  
Propeller.....FULL DECREASE  
Airspeed.....REDUCE  
Throttle.....BELOW 1700 RPM

Land.....AS SOON AS PRACTICABLE  
Checklist.....COMPLETE

**C/R EMERGENCY LANDING GEAR EXTENSION**

Battery Master Switch.....ON  
Alternator Switch.....ON  
Circuit Breakers.....CHECKED/IN  
Panel Lights (Daytime).....CHECKED/OFF  
Landing Gear Indicator Bulbs.....CHECKED  
Airspeed.....SLOW BELOW 100 MPH/87 KIAS  
Landing Gear Selector.....DOWN  
Emergency Landing Gear Lever.....DOWN  
Landing Gear Lights.....3/GREEN  
Checklist.....COMPLETE

**C/R GEAR-UP LANDING**

Flaps.....AS REQUIRED  
Battery Master Switch.....OFF  
Alternator Switch.....OFF  
Throttle.....IDLE  
Mixture.....IDLE CUT-OFF  
Fuel Selector.....OFF  
Ignition Switch.....OFF  
Seats/Belts/Harnesses.....SECURED  
Checklist.....COMPLETE

**V/R FUEL PRESSURE DROP/LOSS**

Fuel Pump.....ON  
Fuel Selector.....AS REQUIRED  
Land.....AS SOON AS PRACTICABLE  
Checklist.....COMPLETE

**V/R ELECTRICAL FAILURE IN FLIGHT**

Ammeter.....CHECK FOR DISCHARGE  
ALT Circuit Breaker.....CHECK - IN  
If Circuit Breaker IN.....CYCLE ALT SWITCH  
If Ammeter Reads Zero:  
    Alternator Switch.....OFF  
    Electrical Load.....REDUCE  
    Alternator Switch.....ON  
If Circuit Breaker OUT (Tripped):  
    Time.....NOTE  
    All Electrical/Master Switches.....OFF 15 Sec.  
    ALT Circuit Breaker.....RESET  
If ALT Circuit Breaker Fails to Reset:  
    Electrical Load.....REDUCE  
    Alternator Switch.....OFF  
Land.....AS SOON AS PRACTICABLE  
Checklist.....COMPLETE

**V/R ELECTRICAL OVERLOAD**

Battery Master Switch.....OFF  
If No Ammeter Decrease:  
    Alternator Switch.....OFF  
If Ammeter Decrease:  
    Battery Master Switch.....ON  
    Ammeter.....MONITOR  
If No Ammeter Decrease w/in 5 minutes:  
Battery Master Switch.....OFF  
If Ammeter Decrease.....MONITOR/PROCEED  
Checklist.....COMPLETE

**V/R LANDING W/ FLAT TIRE**

Radio.....TRANSMIT CONDITION/INTENTIONS  
Approach.....FLY NORMAL APPROACH  
Flat Main Tire:  
Land.....SIDE OF RWY OPP. FLAT TIRE  
Touchdown.....GOOD MAIN TIRE FIRST  
Flat Nose Tire:  
Land.....CENTER OF RWY  
Directional Control.....MAINTAIN  
Normal Shutdown.....EXECUTE, DO NOT TAXI  
Checklist.....COMPLETE

**V/R FORCED LANDING**

Airspeed.....BEST GLIDE  
Mixture.....IDLE CUT-OFF  
Fuel Selector.....OFF  
Radio.....MAYDAY  
    CURRENT FREQUENCY OR 121.5  
Transponder.....SQUAWK 7700  
ELT (If Off Airport).....ACTIVATE  
All Electrical Switches (Except Master).....OFF  
Flaps.....AS REQUIRED

Master Switches.....OFF WHEN LANDING ASSURED  
Seats/Belts/Harnesses.....SECURED  
Loose Items.....SECURED  
Door.....UNLATCH  
Approach to Landing Area.....STABILIZED  
Touchdown.....MINIMUM AIRSPEED  
Checklist.....COMPLETE

**V/R DITCHING**

Radio.....MAYDAY  
    CURRENT FREQUENCY OR 121.5  
Transponder.....SQUAWK 7700  
Loose Objects.....SECURE, KEEP EXIT CLEAR  
Seats/Belts/Harnesses.....SECURED  
Door.....UNLATCHED  
Landing Gear.....UP  
Flaps.....FULL DOWN  
ELT.....ACTIVATE

Approach.....PARALLEL SWELLS (If Possible)  
Touchdown.....Landing Attitude, MIN. AIRSPEED  
Aircraft.....EVACUATE  
Life Vests/Raft (If Installed).....INFLATE