

| Piper Archer – 181   | Pre-Start (Cont'd)   | Pre-Takeoff - RUNUP   | A/P Ops (If Equipped)  |
|--|--|---|--|
| <b>Main Checklist</b>  | <input type="checkbox"/> Beacon – ON<br><input type="checkbox"/> Strobes – OFF   | <input type="checkbox"/> Parking Brake – SET<br><input type="checkbox"/> Pax Seats - UPRIGHT<br><input type="checkbox"/> Seats/Belts/Harness - SECURE<br><input type="checkbox"/> Cabin Doors - CLOSE/LATCH<br><input type="checkbox"/> Flight Controls - FREE/CORRECT<br><input type="checkbox"/> Flight Inst – CHECK / SET<br><input type="checkbox"/> Radios/Xpdr/Avionics - SET<br><input type="checkbox"/> Flight Plan - PROGRAMMED<br><input type="checkbox"/> Fuel Qty – CHECK<br><input type="checkbox"/> Primer – IN / LOCKED<br><input type="checkbox"/> Mixture - RICH (< 3K)<br><input type="checkbox"/> Fuel Selector - RECHECK FULL<br><input type="checkbox"/> ELECT Fuel Pump – ON<br><input type="checkbox"/> Elevator / Rudder Trim – SET<br><input type="checkbox"/> Throttle - 2000 RPM<br><input type="checkbox"/> Magnetos-R/L < 175 & 50 diff<br><input type="checkbox"/> Suction Gauge – 4.8-5.1<br><input type="checkbox"/> Engine Inst/Ammeter - CHECK<br><input type="checkbox"/> Throttle - Check Idle, set 1000<br><input type="checkbox"/> Throttle Friction Lock – ADJUST<br><input type="checkbox"/> Nav Lights - AS NEEDED<br><input type="checkbox"/> Radio Lights/Dimmer – SET<br><input type="checkbox"/> Annunciator Panel – TEST<br><input type="checkbox"/> Autopilot - OFF<br><input type="checkbox"/> Air Cond/Fans – OFF<br><input type="checkbox"/> Flaps - SET FOR TAKEOFF<br><input type="checkbox"/> Windows - CLOSED<br><input type="checkbox"/> Door – Recheck CLOSED<br><input type="checkbox"/> Parking Brake - RELEASE | <input type="checkbox"/> Establish 800 FPM<br><input type="checkbox"/> HDG Bug – DESIRED COURSE<br><input type="checkbox"/> A/P – ON<br><input type="checkbox"/> Select Desired CDI Source<br><input type="checkbox"/> Course Pointer – Bearing To<br><input type="checkbox"/> Select - NAV  |
| <b>Preflight</b>   | <b>Engine Start (Cold)</b>   | <input type="checkbox"/> Ignition Switch – Call CLEAR / START<br><input type="checkbox"/> Throttle - ADJUST 1000 RPM<br><input type="checkbox"/> Oil Pressure – CHECK<br><input type="checkbox"/> Voltmeter - VERIFY > 13.5<br><input type="checkbox"/> Starter – Check disengaged<br><input type="checkbox"/> Avionics Pwr Switch(es) – ON<br><input type="checkbox"/> Fuel Flow – If Equipped / Set<br><input type="checkbox"/> Nav Lights - As needed  | <b>Short Field Takeoff</b>   |
| <input type="checkbox"/> Operating Handbook - AVAIL<br><input type="checkbox"/> Weight & Balance - CHECKED<br><input type="checkbox"/> Parking Brake - SET<br><input type="checkbox"/> Control Wheel Lock - REMOVE<br><input type="checkbox"/> Ignition Switch - OFF<br><input type="checkbox"/> Avionics Power - OFF<br><input type="checkbox"/> Flaps - UP<br><input type="checkbox"/> Master/Battery Switch - ON<br><input type="checkbox"/> Fuel Quantity – CHECK (verify visual)<br><input type="checkbox"/> Low Vacuum Warn Light - CHECK<br><input type="checkbox"/> Avionics Power – ON / check Fan<br><input type="checkbox"/> Avionics Power - OFF<br><input type="checkbox"/> Master/Battery Switch - OFF<br><input type="checkbox"/> Fuel Selector - SELECT TANK<br><input type="checkbox"/> Baggage Door - CLOSE/LATCH<br><input type="checkbox"/> Gust Lock(s) - REMOVE<br><input type="checkbox"/> Tie Downs - DISCONNECT<br><input type="checkbox"/> Control Surfaces - MOVEMENT<br><input type="checkbox"/> Undercarriage/Antennas - CHECK<br><input type="checkbox"/> Tail Light / Wicks – CHECK<br><input type="checkbox"/> Aileron - MOVEMENT / SECURE<br><input type="checkbox"/> Main Wheel Tire - => 24 PSI / 2.5”<br><input type="checkbox"/> Fuel Sump Drains - CHECK<br><input type="checkbox"/> Fuel Qty - CHECK VISUALLY<br><input type="checkbox"/> Fuel Filler Cap - SECURE<br><input type="checkbox"/> Left Wing - PITOT / STALL VANE<br><input type="checkbox"/> Engine Oil - > 5QT / 7 for X-C<br><input type="checkbox"/> Cowling - Secure<br><input type="checkbox"/> Prop & Spinner - NICKS/SECURE<br><input type="checkbox"/> Engine/Oil Inlets - UNRESTRICTED<br><input type="checkbox"/> Nose Wheel/Strut - => 18 PSI<br><input type="checkbox"/> Static Source Opening - CLEAR | <input type="checkbox"/> Carb Heat - Cold<br><input type="checkbox"/> Mixture - FULL RICH<br><input type="checkbox"/> Throttle - PUSH OPEN 2”<br><input type="checkbox"/> Prime – IF REQUIRED (3x – 5x)<br><input type="checkbox"/> Throttle - OPEN ½”<br><input type="checkbox"/> Electric Fuel Pump - ON<br><input type="checkbox"/> Ignition Switch – Call CLEAR / START<br><input type="checkbox"/> Throttle - ADJUST 1000 RPM<br><input type="checkbox"/> Oil Pressure – CHECK<br><input type="checkbox"/> Voltmeter - VERIFY > 13.5<br><input type="checkbox"/> Starter – Check disengaged<br><input type="checkbox"/> Avionics Pwr Switch(es) – ON<br><input type="checkbox"/> Fuel Flow – If Equipped / Set<br><input type="checkbox"/> Nav Lights - As needed |   | <input type="checkbox"/> Flaps - 25 DEGREES (2nd notch)<br><input type="checkbox"/> Carb Heat - COLD<br><input type="checkbox"/> Brakes - APPLY<br><input type="checkbox"/> Mixture - FULL RICH < 3000<br><input type="checkbox"/> Throttle - FULL OPEN<br><input type="checkbox"/> Brakes - RELEASE<br><input type="checkbox"/> Elevator - TAIL LOW<br><input type="checkbox"/> Accelerate – 50 - 60 KTS<br><input type="checkbox"/> Elevator - BACK PRESSURE<br><input type="checkbox"/> Rotate – BOTTOM OF WHITE ARC<br><input type="checkbox"/> Accelerate – Vx 64 KTS<br><input type="checkbox"/> Obstacles – CLEARED<br><input type="checkbox"/> Accelerate – Vx 76 KTS<br><input type="checkbox"/> Flaps - RETRACT SLOWLY |
| <b>Pre-Start</b>   | <b>Engine Start (Hot)</b>  | <b>Takeoff (Normal)</b>   | <b>Normal Landing</b>  |
| <input type="checkbox"/> Passenger Briefing - COMPLETE<br><input type="checkbox"/> Seats/Belts/Harness – SECURE<br><input type="checkbox"/> Brakes - SET<br><input type="checkbox"/> Flaps – UP<br><input type="checkbox"/> Avionics Pwr Switch(es) - OFF<br><input type="checkbox"/> Panel Lights – OFF (daytime)<br><input type="checkbox"/> Circuit Breakers - CHECK IN<br><input type="checkbox"/> Electrical Equip / A/P – OFF<br><input type="checkbox"/> Radios – OFF<br><input type="checkbox"/> Fuel - CHECK QUANTITY<br><input type="checkbox"/> Fuel Selector – FULLEST<br><input type="checkbox"/> Battery / Alt Switches - ON   | <input type="checkbox"/> Fuel Pump – OFF / NONE<br><input type="checkbox"/> Mixture – IDLE / CUTOFF<br><input type="checkbox"/> Throttle – full open<br><input type="checkbox"/> Ignition Switch – Call CLEAR / START<br>As Engine Starts – MIXTURE FULL<br><input type="checkbox"/> Throttle - ADJUST 1000 RPM<br><input type="checkbox"/> Oil Pressure – CHECK<br><input type="checkbox"/> Voltmeter - VERIFY > 13.5   | <input type="checkbox"/> On Runway Checklist<br><input type="checkbox"/> Time - NOTE<br><input type="checkbox"/> Landing Light – AS NEEDED<br><input type="checkbox"/> DG - Check ok on Rwy Hdg<br><input type="checkbox"/> Flaps - 0 DEGREES<br><input type="checkbox"/> Carb Heat - COLD<br><input type="checkbox"/> Brakes – RELEASE<br><input type="checkbox"/> Throttle – FULL OPEN 2700<br><input type="checkbox"/> Engine Instruments – CHECK<br>Oil Prsr/RPM/GPH/IAS<br><input type="checkbox"/> Rotate – 65 KTS<br><input type="checkbox"/> Positive Rate of Climb - CONFIRM<br><input type="checkbox"/> Climb Speed - Vy - 76 KTS<br><input type="checkbox"/> Elect Fuel Pump – OFF AT ALT<br><input type="checkbox"/> Landing Light - OFF  | <input type="checkbox"/> Seatbelts, Etc. – SECURE<br><input type="checkbox"/> Landing Light – ON<br><input type="checkbox"/> Mixture - FULL RICH<br><input type="checkbox"/> Fuel; PUMP ON – FULLEST TANK<br><input type="checkbox"/> Airspeed – (flaps up) 82 – 90 KTS<br><input type="checkbox"/> Flaps – As desired < 100 KTS<br><input type="checkbox"/> Airspeed – (approach) 75 KTS<br><input type="checkbox"/> Airspeed – (flaps down) 66 KTS   |
| <b>Pre-Start</b>   | <b>Pre-Taxi</b>  | <b>Takeoff (Normal)</b>   | <b>Short Field Landing</b>   |
| <input type="checkbox"/> Passenger Briefing - COMPLETE<br><input type="checkbox"/> Seats/Belts/Harness – SECURE<br><input type="checkbox"/> Brakes - SET<br><input type="checkbox"/> Flaps – UP<br><input type="checkbox"/> Avionics Pwr Switch(es) - OFF<br><input type="checkbox"/> Panel Lights – OFF (daytime)<br><input type="checkbox"/> Circuit Breakers - CHECK IN<br><input type="checkbox"/> Electrical Equip / A/P – OFF<br><input type="checkbox"/> Radios – OFF<br><input type="checkbox"/> Fuel - CHECK QUANTITY<br><input type="checkbox"/> Fuel Selector – FULLEST<br><input type="checkbox"/> Battery / Alt Switches - ON   | <input type="checkbox"/> Avionics Master - ON<br><input type="checkbox"/> ATIS – TUNE<br><input type="checkbox"/> Transponder – VFR or assigned code<br><input type="checkbox"/> If IFR – Pick up Flight Plan<br><input type="checkbox"/> Nav Lights – OFF day, ON night<br><input type="checkbox"/> Mixture – FULL RICH (no lean for taxi)<br><input type="checkbox"/> Brakes – RELEASE & TEST  | <input type="checkbox"/> On Runway Checklist<br><input type="checkbox"/> Time - NOTE<br><input type="checkbox"/> Landing Light – AS NEEDED<br><input type="checkbox"/> DG - Check ok on Rwy Hdg<br><input type="checkbox"/> Flaps - 0 DEGREES<br><input type="checkbox"/> Carb Heat - COLD<br><input type="checkbox"/> Brakes – RELEASE<br><input type="checkbox"/> Throttle – FULL OPEN 2700<br><input type="checkbox"/> Engine Instruments – CHECK<br>Oil Prsr/RPM/GPH/IAS<br><input type="checkbox"/> Rotate – 65 KTS<br><input type="checkbox"/> Positive Rate of Climb - CONFIRM<br><input type="checkbox"/> Climb Speed - Vy - 76 KTS<br><input type="checkbox"/> Elect Fuel Pump – OFF AT ALT<br><input type="checkbox"/> Landing Light - OFF  | <input type="checkbox"/> Same as Normal, thence...<br><input type="checkbox"/> Low Safe Airspeed 66 KTS<br><input type="checkbox"/> Braking - APPLY HEAVILY  |
| <b>Pre-Start</b>   | <b>Pre-Taxi</b>  | <b>Takeoff (Normal)</b>   | <b>Post Landing</b>  |
| <input type="checkbox"/> Passenger Briefing - COMPLETE<br><input type="checkbox"/> Seats/Belts/Harness – SECURE<br><input type="checkbox"/> Brakes - SET<br><input type="checkbox"/> Flaps – UP<br><input type="checkbox"/> Avionics Pwr Switch(es) - OFF<br><input type="checkbox"/> Panel Lights – OFF (daytime)<br><input type="checkbox"/> Circuit Breakers - CHECK IN<br><input type="checkbox"/> Electrical Equip / A/P – OFF<br><input type="checkbox"/> Radios – OFF<br><input type="checkbox"/> Fuel - CHECK QUANTITY<br><input type="checkbox"/> Fuel Selector – FULLEST<br><input type="checkbox"/> Battery / Alt Switches - ON   | <input type="checkbox"/> Avionics Master - ON<br><input type="checkbox"/> ATIS – TUNE<br><input type="checkbox"/> Transponder – VFR or assigned code<br><input type="checkbox"/> If IFR – Pick up Flight Plan<br><input type="checkbox"/> Nav Lights – OFF day, ON night<br><input type="checkbox"/> Mixture – FULL RICH (no lean for taxi)<br><input type="checkbox"/> Brakes – RELEASE & TEST  | <input type="checkbox"/> On Runway Checklist<br><input type="checkbox"/> Time - NOTE<br><input type="checkbox"/> Landing Light – AS NEEDED<br><input type="checkbox"/> DG - Check ok on Rwy Hdg<br><input type="checkbox"/> Flaps - 0 DEGREES<br><input type="checkbox"/> Carb Heat - COLD<br><input type="checkbox"/> Brakes – RELEASE<br><input type="checkbox"/> Throttle – FULL OPEN 2700<br><input type="checkbox"/> Engine Instruments – CHECK<br>Oil Prsr/RPM/GPH/IAS<br><input type="checkbox"/> Rotate – 65 KTS<br><input type="checkbox"/> Positive Rate of Climb - CONFIRM<br><input type="checkbox"/> Climb Speed - Vy - 76 KTS<br><input type="checkbox"/> Elect Fuel Pump – OFF AT ALT<br><input type="checkbox"/> Landing Light - OFF  | <input type="checkbox"/> EXIT RUNWAY<br><input type="checkbox"/> Flaps - UP<br><input type="checkbox"/> Landing Light - OFF<br><input type="checkbox"/> Transponder - OFF<br><input type="checkbox"/> Contact Ground Control   |

## Beach Bonanza – V35

### 275BM – Procedures

#### ENGINE FAILURE - TAKEOFF

- Throttle - IDLE
- Brakes - APPLY
- Flaps - RETRACT
- Mixture - IDLE / CUTOFF
- Ignition Switch - OFF
- Avionics Switch(es) - OFF
- Master Switch - OFF
- Fuel Selector - OFF

#### ENGINE FAILURE - CLIMB

- Airspeed - 66 KTS
- Mixture - IDLE / CUTOFF
- Fuel Shutoff Valve - OFF
- Ignition Switch - OFF
- Flaps - AS REQUIRED
- Master Switch - OFF
- Land - LOWEST SAFE SPEED

#### ENGINE RESTART

- Airspeed - BEST GLIDE 76 KTS
- Fuel Selector - SWITCH
- Mixture - FULL RICH
- Fuel Pump - ON
- Ignition Switch - START  
(Check left/right/both)

#### FORCED LANDING – NO ENGINE

- Belts, Etc. - SECURE
- Airspeed – 65 KTS (flaps up)
- Airspeed – 60 KTS (flaps down)
- Mixture - IDLE / CUTOFF
- Fuel Selector Valve - OFF
- Ignition Switch - OFF
- Flaps - AS REQUIRED
- Gear - AS NEEDED
- Master Switch - OFF
- Doors - UNLATCH
- Touchdown - SLIGHTLY TAIL LOW
- Brakes - APPLY HEAVILY

## ENGINE FIRE

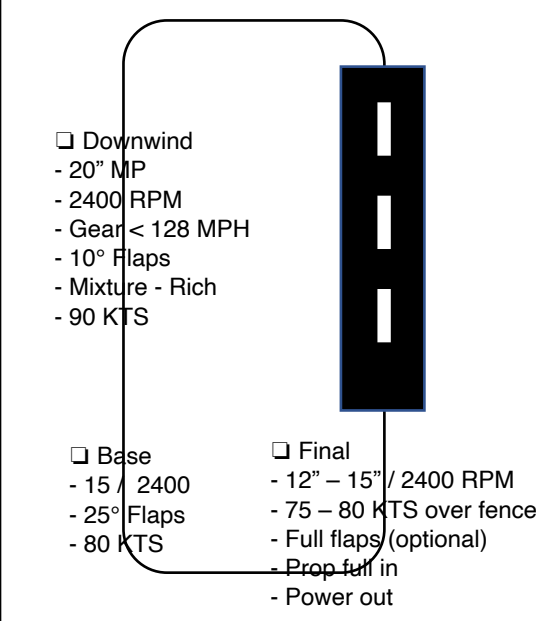
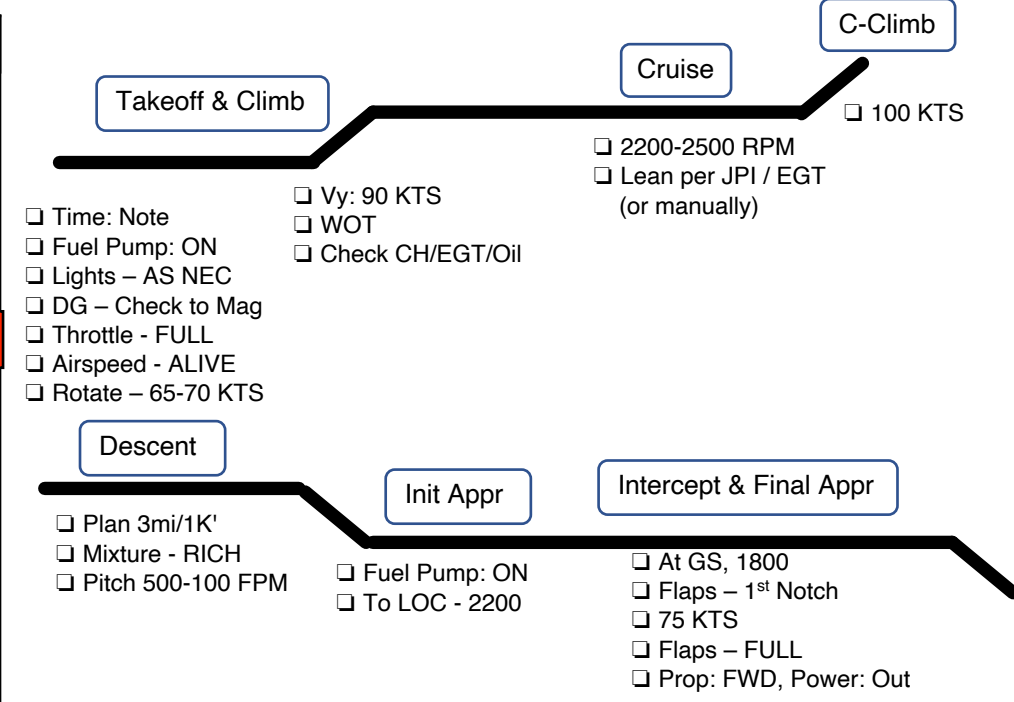
- Mixture - IDLE / CUTOFF
- Fuel Selector Valve - OFF
- Master Switch - OFF
- Cabin Heat/Air - OFF
- Airspeed – 85 KTS - INCREASE AS NECESSARY TO EXTINGUISH
- Forced Landing - EXECUTE

## SPIN RECOVERY

- AILERONS - NEUTRAL
- THROTTLE CLOSED
- OPPOSITE RUDDER
- STICK FORWARD-BREAK STALL
- RUDDER NEUTRAL
- RECOVER FROM DIVE

## Operational Info

Fuel: TBD



| Speed   | Kts |
|---------|-----|
| Vr      | 65  |
| Vy      | 76  |
| Vx      | 64  |
| Cruise  | 87  |
| Va      | 113 |
| Vne     | 154 |
| Appr    | 75  |
| Vle     | n/a |
| Vfe     | 100 |
| Vs      | 59  |
| Vso     | 53  |
| C-Climb | 100 |
| E-Desc  | 144 |
| Glide   | 76  |
| E-Appr  | 70  |