

Beach Bonanza – BE-S35	Pre-Start (Cont'd)	Pre-Takeoff - RUNUP	A/P on Climb
9003S – Main Checklist	<input type="checkbox"/> Fuel - CHECK QUANTITY <input type="checkbox"/> Fuel Selector - FULLEST > 13g <input type="checkbox"/> Beacon – ON <input type="checkbox"/> Strobes – OFF	<input type="checkbox"/> Seats/Belts/Harness - SECURE <input type="checkbox"/> Parking Brake – SET <input type="checkbox"/> Dynon – ENGINE PAGE CHECK Top to Bottom <input type="checkbox"/> Dynon & IFD Set Flight Plan and ACTIVATE Check both flight plans and Maps	<input type="checkbox"/> Set Altitude <input type="checkbox"/> Establish 700 FPM <input type="checkbox"/> Push “AP” – Note Green Bar <input type="checkbox"/> Adjust rate w/Dynon VS
Preflight	Engine Start (Cold)	<input type="checkbox"/> Radios/Xpdr/Avionics - SET <input type="checkbox"/> Trim – SET 3 up for front only – 0 for four aboard <input type="checkbox"/> Flaps - SET FOR TAKEOFF <input type="checkbox"/> Altitude & Climb Rate – SET <input type="checkbox"/> Cowl Flaps - OPEN <input type="checkbox"/> Aux Fuel Pump - CHECK OFF / CTR <input type="checkbox"/> Windows - CLOSED <input type="checkbox"/> Flight Controls - FREE/CORRECT <input type="checkbox"/> Throttle - 1700 RPM <input type="checkbox"/> Magnetos-R/L < 150 & 50 diff <input type="checkbox"/> Exercise Prop 1x - 300 rpm drop <input type="checkbox"/> Throttle - Check Idle @700, set 1000 <input type="checkbox"/> Mixture - RICH (< 3K) <input type="checkbox"/> Cabin Doors - CLOSE/LATCH <input type="checkbox"/> Fuel Selector - RECHECK FULL <input type="checkbox"/> Throttle Friction Lock - ADJUST <input type="checkbox"/> Autopilot - OFF <input type="checkbox"/> Window - CLOSED <input type="checkbox"/> Parking Brake - RELEASE	Short Field Takeoff
<input type="checkbox"/> Operating Handbook - AVAIL <input type="checkbox"/> Weight & Balance - CHECKED <input type="checkbox"/> Parking Brake - SET <input type="checkbox"/> Control Wheel Lock - REMOVE <input type="checkbox"/> Ignition Switch - OFF <input type="checkbox"/> Avionics Power - OFF <input type="checkbox"/> Flaps - UP <input type="checkbox"/> Master/Battery Switch - ON <input type="checkbox"/> Fuel Quantity – CHECK (verify visual) <input type="checkbox"/> Avionics Power - CHECK <input type="checkbox"/> Fuel Selector - SELECT TANK <input type="checkbox"/> Baggage Door - CLOSE/LATCH <input type="checkbox"/> Gust Lock(s) - REMOVE <input type="checkbox"/> Tie Downs - DISCONNECT <input type="checkbox"/> Control Surfaces - MOVEMENT <input type="checkbox"/> Undercarriage/Antennas - CHECK <input type="checkbox"/> Tail Light / Wicks – CHECK <input type="checkbox"/> Aileron - MOVEMENT / SECURE <input type="checkbox"/> Main Wheel Tire - => 40 PSI <input type="checkbox"/> Fuel Sump Drains - CHECK <input type="checkbox"/> Fuel Qty - CHECK VISUALLY <input type="checkbox"/> Fuel Filler Cap - SECURE <input type="checkbox"/> Left Wing - PITOT / STALL VANE <input type="checkbox"/> Engine Oil - > 5QT / 7 for X-C <input type="checkbox"/> Cowling - Secure <input type="checkbox"/> Prop & Spinner - NICKS/SECURE <input type="checkbox"/> Engine/Oil Inlets - UNRESTRICTED <input type="checkbox"/> Nose Wheel/Strut - => 30 PSI <input type="checkbox"/> Static Source Opening - CLEAR	<input type="checkbox"/> Mixture - FULL RICH <input type="checkbox"/> Prop - FULL FORWARD (hi rpm) <input type="checkbox"/> Throttle - PUSH FULL IN <input type="checkbox"/> Aux Fuel Pump – ON (high speed/up) (until FLOW PEAKS, then OFF & Cntr) <input type="checkbox"/> Throttle - PULL CLOSED <input type="checkbox"/> Throttle - OPEN ¼” - 6 ½ turns in BM <input type="checkbox"/> Ignition Switch – Call CLEAR / START If flooded wait 10min, then HOT START <input type="checkbox"/> Throttle - ADJUST 1000 RPM <input type="checkbox"/> Oil Pressure – CHECK <input type="checkbox"/> Alternator Switch - ON <input type="checkbox"/> Voltmeter - VERIFY > 13.5 <input type="checkbox"/> Avionics Pwr Switch(es) - ON <input type="checkbox"/> Nav Lights - As needed <input type="checkbox"/> Engine < 1200 RPM until temp > 75 F (in green)	<input type="checkbox"/> On Runway Checklist <input type="checkbox"/> Time - NOTE <input type="checkbox"/> Landing Light – AS NEEDED <input type="checkbox"/> DG - Check ok on Rwy Hdg <input type="checkbox"/> Flaps - 0 DEGREES <input type="checkbox"/> Brakes – RELEASE <input type="checkbox"/> Throttle - FULLOPEN 2700 <input type="checkbox"/> Engine Instruments – CHECK Oil Prsr/RPM/GPH/IAS <input type="checkbox"/> Airspeed - ALIVE <input type="checkbox"/> Rotate – 70 KTS <input type="checkbox"/> Positive Rate of Climb - CONFIRM <input type="checkbox"/> Brakes/Wheels - TAP <input type="checkbox"/> Landing Gear - RETRACT <input type="checkbox"/> Climb Speed - Vy - 90 KTS 700 FPM / 7.5° <input type="checkbox"/> Power - REDUCE mp/prop (25) <input type="checkbox"/> Temps - MONITOR cht/egt/oil <input type="checkbox"/> Cowl Flaps - OPEN (at cruise)	Normal Landing
Pre-Start	Engine Start (Hot)	Takeoff (Normal)	<input type="checkbox"/> Flaps - 25 DEGREES (2nd notch) <input type="checkbox"/> Brakes - APPLY <input type="checkbox"/> Mixture - FULL RICH < 3000 <input type="checkbox"/> Throttle - FULL OPEN <input type="checkbox"/> Brakes - RELEASE <input type="checkbox"/> Elevator - TAIL LOW <input type="checkbox"/> Accelerate - 60-65 KTS <input type="checkbox"/> Elevator - BACK PRESSURE <input type="checkbox"/> Rotate - CLIMB ATTITUDE <input type="checkbox"/> Accelerate - 85 KTS <input type="checkbox"/> Positive Climb – TAP/GEAR UP <input type="checkbox"/> Accelerate – 90 KTS <input type="checkbox"/> Obstacles - CLEARED <input type="checkbox"/> Flaps - RETRACT SLOWLY
<input type="checkbox"/> Gear Handle – DOWN “Barber Pole” reads “DN” <input type="checkbox"/> Gear Crank - FREE/FOLDED <input type="checkbox"/> Avionics Pwr Switch(es) - OFF <input type="checkbox"/> Parking Brake - TEST/SET <input type="checkbox"/> Seats/Belts/Harness - SECURE <input type="checkbox"/> Circuit Breakers - CHECK IN <input type="checkbox"/> Flaps - UP / HANDLE CNTRD <input type="checkbox"/> Cowl Flaps – OPEN (summer > 70°) <input type="checkbox"/> Battery Switch - ON <input type="checkbox"/> Gear Down Lights – GREEN <input type="checkbox"/> Dynon Bootup – WAIT Engine Page / MP/RPMs – CHECK	<input type="checkbox"/> Throttle/Mixture – CLOSED (full back) <input type="checkbox"/> Fuel Pump – RUN 30 seconds <input type="checkbox"/> Throttle – OPEN 2” <input type="checkbox"/> Mixture – FULL RICH <input type="checkbox"/> Fuel Pump – ON until Peak Flow-OFF <input type="checkbox"/> Throttle – PULL closed <input type="checkbox"/> Throttle – OPEN ¼” / 6 1/2 turns in BM <input type="checkbox"/> Ignition Switch – Call CLEAR / START	<input type="checkbox"/> Pre-Taxi <input type="checkbox"/> Avionics Master - ON <input type="checkbox"/> Weight Balance – CHECK on Dynon <input type="checkbox"/> ATIS – TUNE; set RWY HDG, BARO <input type="checkbox"/> Transponder – VFR or assigned code <input type="checkbox"/> If IFR – Pick up Flight Plan <input type="checkbox"/> Nav Lights – OFF day, ON night <input type="checkbox"/> Mixture – FULL RICH (no lean for taxi) <input type="checkbox"/> Brakes – RELEASE & TEST Warnings: - Reject takeoff if fuel shows Yellow or < 13 gal in selected tank. - Engine < 1200 RPM until temp > 75 F (in green)	Short Field Landing
	Pre-Taxi		Post Landing
			<input type="checkbox"/> Same as Normal, thence... <input type="checkbox"/> Low Safe Airspeed 69kt / 79mph <input type="checkbox"/> Braking - APPLY HEAVILY <input type="checkbox"/> EXIT RUNWAY <input type="checkbox"/> Flaps - UP <input type="checkbox"/> Landing Light - OFF <input type="checkbox"/> Mixture - LEAN FOR TAXI <input type="checkbox"/> Contact Ground Control

Beach Bonanza – BE-S35

9003S – 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 - 105 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 105 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 - 74 - 78 KTS
- 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 - 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

GEAR TROUBLESHOOTING

- Verify Gear Handle - DOWN
- Gear Light Mechanical Iris - OPEN
- Check Circuit Breaker - IN
- Mech Gear Indicator - DOWN
- Swap "down" lamp Assemblies

EMERGENCY GEAR EXTENSION

- Gear handle - DOWN
- Landing Gear Circuit Bkr – PULL OFF
- Unfold & engage gear handcrank
- Crank 50 turns counter-clockwise
- Verify down w/light and indicator
- When down, leave until repaired

Operational Info

Fuel: 80 gal / 74 Usable
 Per Tank: 40g / 37 usable
 Tab slot - 35g
 Tab bottom - 30g

Max Xwind - 17 KTS / 20 MPH
 Typical Cruise Fuel: ≈ 18 gph
 Lean: < 1500 EGT

Tires: Main 30, nose 40 – add 5psi on fill

