

**BE-24: N3824R CHECKLIST**

Verbally verify completion of each item &amp; section.

**PRE-FLIGHT INSPECTION**

PAVE / IMSAFE / W &amp; B – COMPLETE

**Cabin / Electrical**

1. Documents – **A.R.R.O.W.**
2. Control Lock & Pitot Cover – **REMOVE**
3. Gear Handle – **DOWN**
4. All Switches – **OFF**
5. Battery – **ON**
6. Fuel Gauges / Electric Gyro – **CHECK**
7. Lights, Stall Warning & Pitot Heat – **CHECK**
8. Battery – **OFF**

**Empennage**

1. Baggage Door – **SECURE**
2. Left Static Port – **CHECK CLEAR**
3. Control Surfaces – **CHECK**
4. Tail Tie-Down – **DISCONNECT**
5. Right Static Port – **CHECK CLEAR**
6. All Antennas – **CHECK**

**Right Wing**

1. Fuel Tank Vent Line – **CHECK CLEAR**
2. Control Surfaces – **CHECK**
3. Wing Tip & Leading Edge – **CHECK**
4. Wing Tie-Down – **DISCONNECT**
5. Wheel, Tire & Brake – **CHECK**
6. Fuel Qty. – **SLOT=20, TAB=15 / CAP SECURE**
7. Fuel Sump – **SAMPLE & CHECK**

**Nose**

1. Oil – **CHECK LEVEL (6-8 quarts)**
2. Fuel Sump – **SAMPLE & CHECK**
3. Cowl – **SECURE**
4. Air Intake – **CLEAR**
5. Propeller / Spinner – **CHECK**
6. Tire and Nose Strut – **CHECK**
7. Chocks – **REMOVED**
8. Windshield – **CLEAN**

**Left Wing**

1. Fuel Sump – **SAMPLE & CHECK**
2. Fuel Qty. – **SLOT=20, TAB=15 / CAP SECURE**
3. Tire, Wheel and Brake – **CHECK**
4. Wing Tie-down – **DISCONNECT**
5. Pitot Tube – **CHECK CLEAR**
6. Wing Tip & Leading Edge – **CHECK**
7. Control Surfaces – **CHECK**
8. Fuel Vent Line – **CHECK CLEAR**

**BEFORE STARTING ENGINE**

1. Pre-flight – **COMPLETE**
2. Passenger Briefing – **S.A.F.E.T.Y.**
3. Seats & Seatbelts – **ADJUST & SECURE**
4. Fuel Selector – **FULLEST TANK**
5. Avionics Master – **OFF**
6. Electrical Equipment – **OFF**
7. All Circuit Breakers – **IN**

**STARTING ENGINE**

1. Brakes – **TEST & HOLD**
2. Mixture – **RICH (COLD), CUTOFF (HOT/FLOOD)**
3. Propeller – **FULL FORWARD**
4. Throttle – **AT THE QUADRANT KNUCKLE**
5. Battery & Alternator – **ON**
6. Beacon & Strobe Lights – **ON**
7. Propeller Area – **“CLEAR!”**
8. Ignition Switch – **TURN TO START**

**9. Mixture – 3/4 UPON IGNITION**

10. Starter Engaged Warning Light – **OFF**
11. Throttle – **1,000 RPM**
12. Oil Pressure – **CHECK IN GREEN**

**PRE-TAXI & TAXI**

1. Avionics Master – **ON**
2. Transponder – **STANDBY**
3. ATIS – **CHECK**
4. Clearance – **OBTAIN**
5. Transponder – **SET CODE & SET TO “ALT”**
6. Brakes – **CHECK (BOTH PILOT STATIONS)**
7. Instruments – **CHECK DURING TAXI (IFR)**

**RUN UP**

1. (C)ontrols – **FREE & CORRECT**
2. (I)nstruments – **SET**
3. (G)as – Fuel Selector **FULLEST TANK**
4. (A)ttitude (Trim/Flaps) – **SET/15°**
5. (R)adios – **COM / NAV / TRANSPONDER**
6. (S)ecure – **DOORS / WINDOWS LATCHED**
7. Brakes – **HOLD**
8. Throttle – **2000 RPM**
  - Mixture – **3/4**
  - Mags – **MAX DROP-100 / MAX SPLIT-25**
  - Propeller – **CYCLE 3 TIMES**
    - RPM DROP (LIMIT TO 500 RPM DROP)
    - MANIFOLD RISE
    - OIL PRESSURE DROP
  - Oil Pressure / Temp – **CHECK IN LIMITS**
  - Ammeter – **CHECK (NEUTRAL OR +)**
  - Suction – **IN GREEN**

**9. Throttle – 1000 RPM**

10. Throttle Friction Lock – **ADJUST**
11. Clearance – **REVIEW**
12. Takeoff Emergency Briefing – **COMPLETE**

**TAKEOFF**

1. All Lights – **ON**
2. Mixture – **RICH BELOW 3000 FEET**
3. Propeller – **FULL FORWARD**
4. Throttle – **FULL FORWARD**
5. Elevator – **RAISE NOSE Vr 66 KTS**
6. Pitch – **Vx 71 / Vy 85 KTS**

**ENROUTE CLIMB**

1. Gear & Flaps – **UP ABOVE 200'**
2. Pitch – **95 KTS**
3. Propeller – **SET BELOW REDLINE**
4. Mixture – **LEAN PER POH**

**CRUISE**

1. Throttle & Prop – **SET PER POH (MAX 75%)**
2. Elevator – **TRIM FOR LEVEL FLIGHT**
3. Mixture – **LEAN PER POH**
4. Gauges – **MONITOR**
5. Fuel Selector – **SWITCH TANKS / 30 MINS**

**V-SPEEDS (KTS)**

Vr – 66 Vx – 71 Vy – 85 Va – 125  
 Vlr – 113 Vle – 135 Vg – 91 Vref – 60-70  
 Aircraft Weights  
 Empty Weight = 1,850 / Gross Weight = 2,750  
 Useful Load = 900

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**PRE-FLIGHT INSPECTION**

PAVE / IMSAFE / W &amp; B – COMPLETE

**Cabin / Electrical**

1. Documents – **A.R.R.O.W.**
2. Control Lock & Pitot Cover – **REMOVE**
3. Gear Handle – **DOWN**
4. All Switches – **OFF**
5. Battery – **ON**
6. Fuel Gauges / Electric Gyro – **CHECK**
7. Lights, Stall Warning & Pitot Heat – **CHECK**
8. Battery – **OFF**

**Empennage**

1. Baggage Door – **SECURE**
2. Left Static Port – **CHECK CLEAR**
3. Control Surfaces – **CHECK**
4. Tail Tie-Down – **DISCONNECT**
5. Right Static Port – **CHECK CLEAR**
6. All Antennas – **CHECK**

**Right Wing**

1. Fuel Tank Vent Line – **CHECK CLEAR**
2. Control Surfaces – **CHECK**
3. Wing Tip & Leading Edge – **CHECK**
4. Wing Tie-Down – **DISCONNECT**
5. Wheel, Tire & Brake – **CHECK**
6. Fuel Qty. – **SLOT=20, TAB=15 / CAP SECURE**
7. Fuel Sump – **SAMPLE & CHECK**

**Nose**

1. Oil – **CHECK LEVEL (6-8 quarts)**
2. Fuel Sump – **SAMPLE & CHECK**
3. Cowl – **SECURE**
4. Air Intake – **CLEAR**
5. Propeller / Spinner – **CHECK**
6. Tire and Nose Strut – **CHECK**
7. Chocks – **REMOVED**
8. Windshield – **CLEAN**

**Left Wing**

1. Fuel Sump – **SAMPLE & CHECK**
2. Fuel Qty. – **SLOT=20, TAB=15 / CAP SECURE**
3. Tire, Wheel and Brake – **CHECK**
4. Wing Tie-down – **DISCONNECT**
5. Pitot Tube – **CHECK CLEAR**
6. Wing Tip & Leading Edge – **CHECK**
7. Control Surfaces – **CHECK**
8. Fuel Vent Line – **CHECK CLEAR**

**BEFORE STARTING ENGINE**

1. Pre-flight – **COMPLETE**
2. Passenger Briefing – **S.A.F.E.T.Y.**
3. Seats & Seatbelts – **ADJUST & SECURE**
4. Fuel Selector – **FULLEST TANK**
5. Avionics Master – **OFF**
6. Electrical Equipment – **OFF**
7. All Circuit Breakers – **IN**

**STARTING ENGINE**

1. Brakes – **TEST & HOLD**
2. Mixture – **RICH (COLD), CUTOFF (HOT/FLOOD)**
3. Propeller – **FULL FORWARD**
4. Throttle – **AT THE QUADRANT KNUCKLE**
5. Battery & Alternator – **ON**
6. Beacon & Strobe Lights – **ON**
7. Propeller Area – **“CLEAR!”**
8. Ignition Switch – **TURN TO START**

**9. Mixture – 3/4 UPON IGNITION**

10. Starter Engaged Warning Light – **OFF**
11. Throttle – **1,000 RPM**
12. Oil Pressure – **CHECK IN GREEN**

**PRE-TAXI & TAXI**

1. Avionics Master – **ON**
2. Transponder – **STANDBY**
3. ATIS – **CHECK**
4. Clearance – **OBTAIN**
5. Transponder – **SET CODE & SET TO “ALT”**
6. Brakes – **CHECK (BOTH PILOT STATIONS)**
7. Instruments – **CHECK DURING TAXI (IFR)**

**RUN UP**

1. (C)ontrols – **FREE & CORRECT**
2. (I)nstruments – **SET**
3. (G)as – Fuel Selector **FULLEST TANK**
4. (A)ttitude (Trim/Flaps) – **SET/15°**
5. (R)adios – **COM / NAV / TRANSPONDER**
6. (S)ecure – **DOORS / WINDOWS LATCHED**
7. Brakes – **HOLD**
8. Throttle – **2000 RPM**
  - Mixture – **3/4**
  - Mags – **MAX DROP-100 / MAX SPLIT-25**
  - Propeller – **CYCLE 3 TIMES**
    - RPM DROP (LIMIT TO 500 RPM DROP)
    - MANIFOLD RISE
    - OIL PRESSURE DROP
  - Oil Pressure / Temp – **CHECK IN LIMITS**
  - Ammeter – **CHECK (NEUTRAL OR +)**
  - Suction – **IN GREEN**

**9. Throttle – 1000 RPM**

10. Throttle Friction Lock – **ADJUST**
11. Clearance – **REVIEW**
12. Takeoff Emergency Briefing – **COMPLETE**

**TAKEOFF**

1. All Lights – **ON**
2. Mixture – **RICH BELOW 3000 FEET**
3. Propeller – **FULL FORWARD**
4. Throttle – **FULL FORWARD**
5. Elevator – **RAISE NOSE Vr 66 KTS**
6. Pitch – **Vx 71 / Vy 85 KTS**

**ENROUTE CLIMB**

1. Gear & Flaps – **UP ABOVE 200'**
2. Pitch – **95 KTS**
3. Propeller – **SET BELOW REDLINE**
4. Mixture – **LEAN PER POH**

**CRUISE**

1. Throttle & Prop – **SET PER POH (MAX 75%)**
2. Elevator – **TRIM FOR LEVEL FLIGHT**
3. Mixture – **LEAN PER POH**
4. Gauges – **MONITOR**
5. Fuel Selector – **SWITCH TANKS / 30 MINS**

**V-SPEEDS (KTS)**

Vr – 66 Vx – 71 Vy – 85 Va – 125  
 Vlr – 113 Vle – 135 Vg – 91 Vref – 60-70  
 Aircraft Weights  
 Empty Weight = 1,850 / Gross Weight = 2,750  
 Useful Load = 900

**BEFORE LANDING**

1. (A)ltimeter – SET
2. (L)ights – ON
3. (G)as – FULLEST TANK
4. (U)ndercarriage – DOWN BELOW 110 KTS
5. (M)ixture – SET / RICH BELOW 3000 FEET
6. (P)ropeller – FULL FORWARD
7. (S)eatbelts – SECURE

**LANDING**

1. Flaps – SET BELOW 96 KTS
2. Airspeed – 60 – 70 KTS
3. Braking – MINIMUM REQUIRED

**AFTER LANDING**

1. Flaps – UP
2. Mixture – LEAN FOR TAXI
3. Lights (Except Beacon) – OFF
4. Trim – RESET FOR TAKEOFF

**SHUTDOWN**

1. Transponder – 1200 THEN STANDBY
2. Avionics Master – OFF
3. Ignition Grounding – CHECK
4. Mixture – IDLE CUTOFF
5. Ignition – OFF/KEYS OUT
6. Battery & Alternator – OFF
7. Control Lock / Pitot Cover – INSTALL
8. Tie Downs – CONNECT
9. Record – HOBBS, TACH, ADDITIONS OF FUEL & OIL, POST FLIGHT CHECK

**ENGINE FIRE ON GROUND**

1. CONTINUE CRANKING
  - If engine starts: 1700 RPM THEN SHUTDOWN
2. If no start: SHUTDOWN
  - Ignition – OFF
  - Master Switch – OFF
  - Fuel Shutoff Valve – OFF
  - Fire – EXTINGUISH

**ENGINE FAILURE AFTER TAKEOFF**

1. Pitch – 74 KTS
2. Flaps – DOWN
3. Landing Gear – CONFIGURE FOR TERRAIN
4. Throttle/Propeller/Mixture – FULL AFT
5. Fuel Selector – OFF
6. Battery & Ignition Switches – OFF
7. Doors – OPEN BEFORE TOUCHDOWN

**ENGINE FAILURE IN FLIGHT**

1. (A)irspeed – 91 KTS & TRIM
2. (B)est Landing Site – FLY DIRECT
3. (C)ockpit Flow / (C)hecklist
  - Fuel Selector – SWITCH TANKS
  - Mixture & Throttle – ADJUST
  - Fuel Pump – ON
  - Ignition – LEFT/RIGHT/BOTH

**IF NO RESTART**

- SET UP BEST GLIDE
  - Landing Gear – UP
  - Flaps – UP
  - Propeller – FULL AFT

4. (D)eclare – MAYDAY (121.5, 7700 as req.)

**5. (E)xecute / (E)xit**

- Fuel Selector – OFF
- Mixture – IDLE/CUTOFF
- Ignition Switch – OFF
- Wing Flaps – AS REQUIRED
- Landing Gear – CONFIGURE FOR TERRAIN
- Airspeed – 74 KTS
- Master Switch – OFF
- Doors – OPEN BEFORE TOUCHDOWN

**ENGINE FIRE IN FLIGHT**

1. Fuel Selector – OFF
2. Throttle / Propeller / Mixture – FULL AFT
3. Cabin Air (red knob) – PULL OFF
4. Defrost (red knob) – PUSH OFF
5. All Electrical – OFF
6. Magnetos – OFF
7. DO NOT ATTEMPT RESTART

**EMERGENCY DESCENT**

1. Throttle – IDLE
2. Propeller – FULL FORWARD
3. Landing Gear – DOWN BELOW 135 KTS
4. Pitch – 120 KTS

**EMERGENCY GEAR EXTENSION**

1. Landing Gear Motor CB – PULL OUT
2. Landing Gear Handle – DOWN
3. Airspeed – 85 KTS MAX
4. Emergency Extension Valve – OPEN (CCW)

**LANDING WITH UNSAFE GEAR**

1. Throttle – CLOSED
2. Airspeed – 60 – 70 KTS (BASED ON WEIGHT)
3. Fuel Selector – OFF
4. Mixture – IDLE CUTOFF
5. Flaps – AS REQUIRED
6. All Electrical – OFF
7. TOUCH DOWN WINGS LEVEL

**PROPELLER OVERSPEED**

1. Throttle – MINIMUM CRUISE
2. Airspeed – REDUCE
3. Oil Pressure – CHECK
4. Oil Pressure in Green – LAND AS SOON AS PRACTICAL
5. Oil Pressure out of Green – LAND ASAP AND PREPARE FOR ENGINE FAILURE.

**STARTER ENGAGED LIGHT ON**

1. All Electrical – OFF
2. Flight – TERMINATE ASAP

**AMMETER EXCESSIVE CHARGE / DISCHARGE**

1. Alternator Switch – CYCLE OFF THEN ON
2. Alternator CB – CHECK IN (IF DISCHARGE)
3. If Condition Remains:
  - Alternator – OFF
  - Electrical Load – REDUCE
  - Flight – TERMINATE AS SOON AS PRACTICAL



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**AFTER LANDING**

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2. Mixture – LEAN FOR TAXI
3. Lights (Except Beacon) – OFF
4. Trim – RESET FOR TAKEOFF

**SHUTDOWN**

1. Transponder – 1200 THEN STANDBY
2. Avionics Master – OFF
3. Ignition Grounding – CHECK
4. Mixture – IDLE CUTOFF
5. Ignition – OFF/KEYS OUT
6. Battery & Alternator – OFF
7. Control Lock / Pitot Cover – INSTALL
8. Tie Downs – CONNECT
9. Record – HOBBS, TACH, ADDITIONS OF FUEL & OIL, POST FLIGHT CHECK

**ENGINE FIRE ON GROUND**

1. CONTINUE CRANKING
  - If engine starts: 1700 RPM THEN SHUTDOWN
2. If no start: SHUTDOWN
  - Ignition – OFF
  - Master Switch – OFF
  - Fuel Shutoff Valve – OFF
  - Fire – EXTINGUISH

**ENGINE FAILURE AFTER TAKEOFF**

1. Pitch – 74 KTS
2. Flaps – DOWN
3. Landing Gear – CONFIGURE FOR TERRAIN
4. Throttle/Propeller/Mixture – FULL AFT
5. Fuel Selector – OFF
6. Battery & Ignition Switches – OFF
7. Doors – OPEN BEFORE TOUCHDOWN

**ENGINE FAILURE IN FLIGHT**

1. (A)irspeed – 91 KTS & TRIM
2. (B)est Landing Site – FLY DIRECT
3. (C)ockpit Flow / (C)hecklist
  - Fuel Selector – SWITCH TANKS
  - Mixture & Throttle – ADJUST
  - Fuel Pump – ON
  - Ignition – LEFT/RIGHT/BOTH

**IF NO RESTART**

- SET UP BEST GLIDE
  - Landing Gear – UP
  - Flaps – UP
  - Propeller – FULL AFT

4. (D)eclare – MAYDAY (121.5, 7700 as req.)

**5. (E)xecute / (E)xit**

- Fuel Selector – OFF
- Mixture – IDLE/CUTOFF
- Ignition Switch – OFF
- Wing Flaps – AS REQUIRED
- Landing Gear – CONFIGURE FOR TERRAIN
- Airspeed – 74 KTS
- Master Switch – OFF
- Doors – OPEN BEFORE TOUCHDOWN

**ENGINE FIRE IN FLIGHT**

1. Fuel Selector – OFF
2. Throttle / Propeller / Mixture – FULL AFT
3. Cabin Air (red knob) – PULL OFF
4. Defrost (red knob) – PUSH OFF
5. All Electrical – OFF
6. Magnetos – OFF
7. DO NOT ATTEMPT RESTART

**EMERGENCY DESCENT**

1. Throttle – IDLE
2. Propeller – FULL FORWARD
3. Landing Gear – DOWN BELOW 135 KTS
4. Pitch – 120 KTS

**EMERGENCY GEAR EXTENSION**

1. Landing Gear Motor CB – PULL OUT
2. Landing Gear Handle – DOWN
3. Airspeed – 85 KTS MAX
4. Emergency Extension Valve – OPEN (CCW)

**LANDING WITH UNSAFE GEAR**

1. Throttle – CLOSED
2. Airspeed – 60 – 70 KTS (BASED ON WEIGHT)
3. Fuel Selector – OFF
4. Mixture – IDLE CUTOFF
5. Flaps – AS REQUIRED
6. All Electrical – OFF
7. TOUCH DOWN WINGS LEVEL

**PROPELLER OVERSPEED**

1. Throttle – MINIMUM CRUISE
2. Airspeed – REDUCE
3. Oil Pressure – CHECK
4. Oil Pressure in Green – LAND AS SOON AS PRACTICAL
5. Oil Pressure out of Green – LAND ASAP AND PREPARE FOR ENGINE FAILURE.

**STARTER ENGAGED LIGHT ON**

1. All Electrical – OFF
2. Flight – TERMINATE ASAP

**AMMETER EXCESSIVE CHARGE / DISCHARGE**

1. Alternator Switch – CYCLE OFF THEN ON
2. Alternator CB – CHECK IN (IF DISCHARGE)
3. If Condition Remains:
  - Alternator – OFF
  - Electrical Load – REDUCE
  - Flight – TERMINATE AS SOON AS PRACTICAL



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