



# *King Air BE-200/B200*

## *Flash Cards*





*King Air BE-200/B200*

# Memory Items



# *King Air BE-200/B200*

## Memory Items

***ENGINE FAILURE/EMERGENCY ENGINE  
SHUTDOWN***



## ***King Air BE-200/B200***

### **Memory Items**

#### ***ENGINE FAILURE/EMERGENCY ENGINE SHUTDOWN***

- 1. Condition lever – FUEL CUTOFF**
- 2. Propeller lever – FEATHER**
- 3. Firewall shutoff valve – CLOSE**
- 4. Fire extinguisher (if installed) – ACTUATE  
IF FIRE WARNING PERSISTS**



# *King Air BE-200/B200*

## Memory Items

***ENGINE FAILURE IN-FLIGHT BELOW  $V_{MCA}$***



# **King Air BE-200/B200**

## **Memory Items**

### **ENGINE FAILURE IN-FLIGHT BELOW $V_{MCA}$**

- 1. Power – REDUCE AS REQUIRED TO MAINTAIN DIRECTIONAL CONTROL**
- 2. Nose – LOWER TO ACCELERATE ABOVE  $V_{MCA}$**
- 3. Power (operating engine) – ADJUST AS REQUIRED**
- 4. Failed engine – SECURE (EMERGENCY ENGINE SHUTDOWN)**



# *King Air BE-200/B200*

## Memory Items

***ENGINE FAILURE DURING TAKEOFF  
(AT OR BELOW  $V_1$ ) TAKEOFF ABORTED***



# *King Air BE-200/B200*

## Memory Items

***ENGINE FAILURE DURING TAKEOFF  
(AT OR BELOW  $V_1$ ) TAKEOFF ABORTED***

- 1. Power levers – IDLE**
- 2. Brakes – AS REQUIRED**
- 3. Operating engine – MAXIMUM REVERSE  
(if required)**

***Warning:*** Exercise extreme care when using single engine reversing on surfaces with reduced traction.





# *King Air BE-200/B200*

## Memory Items

***ENGINE FAILURE DURING TAKEOFF  
(AT OR BELOW  $V_1$ ) TAKEOFF ABORTED (Cont'd.)***



## ***King Air BE-200/B200***

### **Memory Items**

#### ***ENGINE FAILURE DURING TAKEOFF (AT OR BELOW $V_1$ ) TAKEOFF ABORTED (Cont'd.)***

***If insufficient runway remains for stopping:***

**Emergency Engine Shutdown — EXECUTE**

**4. Condition Levers — FUEL CUTOFF**

**5. Propeller Levers — FEATHER**

**6. Fuel Firewall Valves — CLOSED**

**7. Master Switch — OFF (gang bar down)**



# *King Air BE-200/B200*

## Memory Items

***ENGINE FIRE ON GROUND***



# ***King Air BE-200/B200***

## **Memory Items**

### ***ENGINE FIRE ON GROUND***

- 1. Condition lever – FUEL CUTOFF**
- 2. Fuel firewall valve – CLOSE**
- 3. Ignition and engine start switch –  
STARTER ONLY**

***If fire persists:***

- 4. Fire extinguisher – ACTUATE**



# *King Air BE-200/B200*

## Memory Items

***ENGINE FAILURE DURING TAKEOFF  
(AT OR ABOVE  $V_1$ ) TAKEOFF CONTINUED***



# *King Air BE-200/B200*

## Memory Items

***ENGINE FAILURE DURING TAKEOFF  
(AT OR ABOVE  $V_1$ ) TAKEOFF CONTINUED***



# ***King Air BE-200/B200***

## **Memory Items**

### ***ENGINE FAILURE DURING TAKEOFF (AT OR ABOVE $V_1$ ) TAKEOFF CONTINUED***

- 1. Power – MAXIMUM ALLOWABLE**
- 2. Airspeed – MAINTAIN TAKEOFF SPEED OR ABOVE**
- 3. Landing gear – UP**
- 4. Propeller (inop engine) – CONFIRM AUTOFEATHER OR FEATHER**
- 5. Airspeed –  $V_2$  (after obstacles cleared,  $V_{YSE}$ )**



# *King Air BE-200/B200*

## Memory Items

***ENGINE FLAMEOUT (2<sup>ND</sup> ENGINE)***





# ***King Air BE-200/B200***

## **Memory Items**

### ***ENGINE FLAMEOUT (2<sup>ND</sup> ENGINE)***

- 1. Power lever – IDLE**
- 2. Propeller – DO NOT FEATHER**
- 3. Condition lever – FUEL CUTOFF**
- 4. Airstart procedures – CONDUCT**



# *King Air BE-200/B200*

## Memory Items

***GLIDE (BOTH ENGINES INOPERATIVE)***



# ***King Air BE-200/B200***

## **Memory Items**

### ***GLIDE (BOTH ENGINES INOPERATIVE)***

- 1. Landing gear – UP**
- 2. Flaps – UP**
- 3. Propellers – FEATHERED**
- 4. Airspeed – 135 KTS**



# *King Air BE-200/B200*

## Memory Items

***CHIP DETECT***



# **King Air BE-200/B200**

## **Memory Items**

### **CHIP DETECT**

- 1. Affected engine – EMERGENCY SHUTDOWN (BE-200 Only)**
- 2. BE-B200 – No memory items**



# *King Air BE-200/B200*

## Memory Items

***DUAL GENERATOR FAILURE***



# **King Air BE-200/B200**

## **Memory Items**

### **DUAL GENERATOR FAILURE**

**1. Generators – RESET, THEN ON**

***If either generator will reset:***

**2. Operating generator loadmeter – DO NOT EXCEED 100% (88% above 31,000 ft.)**

***Note: This checklist applies to BB-1439, BB-1444 thru BB-1842 except BB-1463 and BB-1834; BL-139 thru BL-147; BW-1 thru BW-29***



# *King Air BE-200/B200*

## Memory Items

***INVERTER FAILURE***





# *King Air BE-200/B200*

## Memory Items

### ***INVERTER FAILURE***

1. Other inverter – SELECT



# *King Air BE-200/B200*

## Memory Items

***L or R FUEL PRESS***



# ***King Air BE-200/B200***

## **Memory Items**

### ***L or R FUEL PRESS***

- 1. Standby boost pump (failed side) – ON**



# *King Air BE-200/B200*

## Memory Items

***UNSCHEDULED ELECTRIC ELEVATOR TRIM***



# ***King Air BE-200/B200***

## **Memory Items**

### ***UNSCHEDULED ELECTRIC ELEVATOR TRIM***

- 1. Aircraft attitude – MAINTAIN USING ELEVATOR CONTROL**
- 2. Control wheel disconnect – DEPRESS FULLY (2<sup>nd</sup> level)**



# *King Air BE-200/B200*

## Memory Items

***UNSCHEDULED RUDDER BOOST ACTIVATION***



## **King Air BE-200/B200**

### **Memory Items**

#### **UNSCHEDULED RUDDER BOOST ACTIVATION**

- 1. Directional control – MAINTAIN WITH RUDDER PEDALS**
  - 2. Rudder boost – OFF**
- If condition persists:*
- 3. Rudder boost CB – PULL**



# *King Air BE-200/B200*

## Memory Items

***INADVERTENT SPIN***





# ***King Air BE-200/B200***

## **Memory Items**

### ***INADVERTENT SPIN***

- 1. Control column – FULL FORWARD, AILERONS NEUTRAL**
- 2. Full rudder – OPPOSITE DIRECTION OF SPIN**
- 3. Power levers – IDLE**
- 4. Controls – NEUTRALIZE WHEN ROTATION STOPS**
- 5. Execute smooth pullout**



# *King Air BE-200/B200*

## Memory Items

***EMERGENCY DESCENT***



# ***King Air BE-200/B200***

## **Memory Items**

### ***EMERGENCY DESCENT***

- 1. Power levers – IDLE**
- 2. Propeller levers – FULL FORWARD**
- 3. Flaps – APPROACH**
- 4. Landing gear – DOWN**
- 5. Airspeed – 181 KIAS**



# *King Air BE-200/B200*

## Memory Items

***ENGINE FIRE IN-FLIGHT***



# **King Air BE-200/B200**

## **Memory Items**

### **ENGINE FIRE IN-FLIGHT**

***If visual indication of fire:***

- 1. Engine shutdown checklist –  
ACCOMPLISH**

***If fire persists:***

- 2. Emergency descent – ACCOMPLISH**



# *King Air BE-200/B200*

## Memory Items

***ENVIRONMENTAL SYSTEM SMOKE OR FUMES***



# ***King Air BE-200/B200***

## **Memory Items**

### ***ENVIRONMENTAL SYSTEM SMOKE OR FUMES***

- 1. Crew masks (diluter demand) – DON/EMERG**
- 2. Oxygen system ready – CONFIRM ON (BB-1439; BB-1444 and sub. – EMERG)**
- 3. Audio speaker – ON**
- 4. Mic selector – OXYGEN MASK**



# *King Air BE-200/B200*

## Memory Items

***CABIN OR CARGO DOOR UNLOCKED***





# *King Air BE-200/B200*

## Memory Items

***CABIN OR CARGO DOOR UNLOCKED***

- 1. All Occupants – SEATED/SEAT BELTS FASTENED SECURELY**



# *King Air BE-200/B200*

## Memory Items

***PRESSURIZATION LOSS***



# **King Air BE-200/B200**

## **Memory Items**

### ***PRESSURIZATION LOSS***

- 1. Crew masks – DON**
- 2. Oxygen system ready – PULL ON (verify)**
- 3. Passenger manual dropout – PULL ON**
- 4. Audio speaker – ON**
- 5. Mic selector – OXYGEN MASK**
- 6. Descend – AS REQUIRED**



# *King Air BE-200/B200*

## Memory Items

***AUTO-DEPLOYMENT OXYGEN SYSTEM FAILURE***



# *King Air BE-200/B200*

## Memory Items

### ***AUTO-DEPLOYMENT OXYGEN SYSTEM FAILURE***

1. Passenger manual dropout – PULL ON



# *King Air BE-200/B200*

## Memory Items

### **USE OF OXYGEN**



# **King Air BE-200/B200**

## **Memory Items**

### **USE OF OXYGEN**

#### **Crew:**

- 1. Crew masks (diluter demand) – DON**
- 2. Oxygen system ready – PULL ON (verify)**
- 3. Audio speaker – ON**
- 4. Mic selector – OXYGEN MASK**



# *King Air BE-200/B200*

## Memory Items

***BLEED AIR LINE FAILURE***





# **King Air BE-200/B200**

## **Memory Items**

### ***BLEED AIR LINE FAILURE***

- 1. Bleed air valve (affected engine) – INSTR/ENVIR OFF (monitor ITT and torque to ensure valve closed)**

**BL AIR FAIL L or R**



*King Air BE-200/B200*

# Annunciators



## *King Air BE-200/B200*

# Engine and Propeller



## *King Air BE-200/B200*

### Annunciators - ENGINE FIRE IN DESIGNATED ENGINE

L ENG FIRE

R ENG FIRE



## ***King Air BE-200/B200***

### **Annunciators - ENGINE FIRE IN DESIGNATED ENGINE**

**L ENG FIRE**

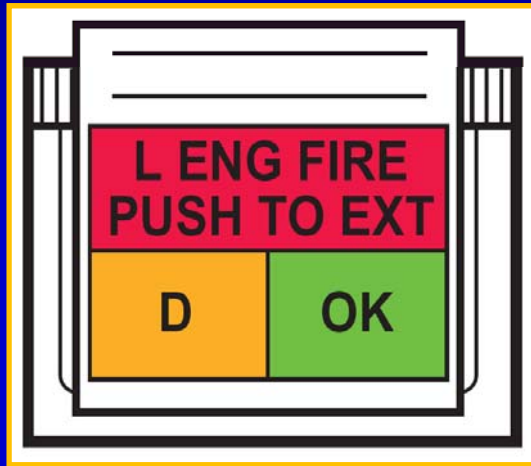
**R ENG FIRE**

- **Illumination of ENG FIRE lights indicates fire detected in nacelle area. Moisture in system or reflected sunlight can activate annunciator(s) for aircraft prior to BB1439, 1444, BL 139 and BW1 except BB 1463**



# *King Air BE-200/B200*

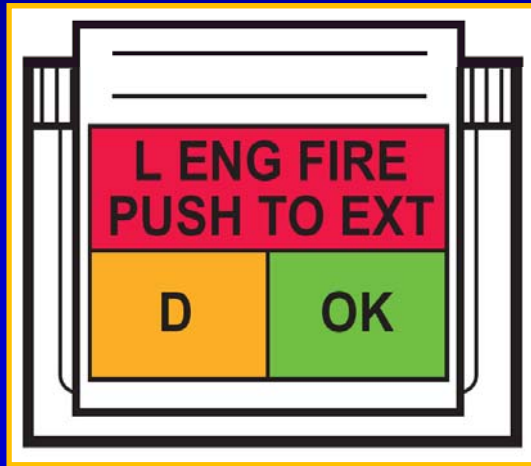
## Annunciators - ENGINE FIRE TEST LIGHTS





## ***King Air BE-200/B200***

### **Annunciators - ENGINE FIRE TEST LIGHTS**



- Illumination of D light indicates extinguisher explosive squib has discharged. In test mode, light bulb tests OK
- Illumination of OK light indicates explosive squib has not discharged; electrical circuitry for fire extinguisher system is intact. Does not indicate bottle pressure



# *King Air BE-200/B200*

**Annunciator - CHIP DETECT (200 only)**

**L CHIP DETECT**





## ***King Air BE-200/B200***

**Annunciator - CHIP DETECT (200 only)**

**L CHIP DETECT**

- **Indicates possible metal contamination in the engine oil supply. May indicate N<sub>2</sub> power section failure or impending failure**



# *King Air BE-200/B200*

**Annunciators - CHIP DETECT (B200 only)**

**R CHIP DETECT**

**R CHIP DETECT**



## ***King Air BE-200/B200***

### **Annunciators - CHIP DETECT (B200 only)**

**R CHIP DETECT**

**R CHIP DETECT**

- **Indicates possible metal contamination in the engine oil supply. May indicate N<sub>2</sub> power section failure or impending failure**



# *King Air BE-200/B200*

## Annunciators – ENGINE LOW OIL PRESSURE

L OIL PRESS

L OIL PRESS



## ***King Air BE-200/B200***

### **Annunciators – ENGINE LOW OIL PRESSURE**

**L OIL PRESS**

**L OIL PRESS**

- **Indicates engine oil pressure is below 60 PSI**



# *King Air BE-200/B200*

## Annunciators – ENGINE IGNITERS ON

L IGNITION ON

R IGNITION ON



## ***King Air BE-200/B200***

### **Annunciators – ENGINE IGNITERS ON**

**L IGNITION ON**

**R IGNITION ON**

- **Indicates ignition system is activated; either the ignition and start switch is in ON, or auto ignition switch is in ARM and engine torque is below approximately 400 ft. lbs**



# *King Air BE-200/B200*

**Annunciator – RVS NOT READY**

**RVS NOT READY**





## ***King Air BE-200/B200***

### **Annunciator – RVS NOT READY**

**RVS NOT READY**

- **Propeller control lever(s) not full forward when landing gear switch handle is in DOWN**



## *King Air BE-200/B200*

**Annunciator - PROPELLER SYNCHROPHASER IS ON**

**PROP SYNC ON**



## ***King Air BE-200/B200***

**Annunciator - PROPELLER SYNCHROPHASER IS ON**

**PROP SYNC ON**

- **Propeller synchrophaser is ON with landing gear extended**



# *King Air BE-200/B200*

## Annunciators – LEFT AND RIGHT AUTOFEATHER

L AUTOFEATHER

R AUTOFEATHER



## ***King Air BE-200/B200***

### **Annunciators – LEFT AND RIGHT AUTOFEATHER**

**L AUTOFEATHER**

**R AUTOFEATHER**

- Illumination of both lights indicates the AUTOFEATHER is active. Unless both annunciators are illuminated, the autofeather system is not fully armed and operational.



## *King Air BE-200/B200*

# Electrical System



# *King Air BE-200/B200*

## Annunciators - DUAL GENERATOR FAILURE

**L DC GEN**

**AND**

**R DC GEN**



## ***King Air BE-200/B200***

### **Annunciators - DUAL GENERATOR FAILURE**

**L DC GEN**

**AND**

**R DC GEN**

**Indicates both generators are  
off-line**





# *King Air BE-200/B200*

## Annunciator – INVERTER FAILURE





## ***King Air BE-200/B200***

### **Annunciator – INVERTER FAILURE**



- **Indicates the selected inverter is inoperative**



# *King Air BE-200/B200*

## Annunciators – GENERATOR OVERHEAT

R GEN OVHT

L GEN OVHT



## ***King Air BE-200/B200***

### **Annunciators – GENERATOR OVERHEAT**

**R GEN OVHT**

**L GEN OVHT**

- **Indicates the generator frame temperature is above 157°C (315°F)**



# *King Air BE-200/B200*

## Annunciators – GENERATOR OFF-LINE

**L DC GEN**

**R DC GEN**



## *King Air BE-200/B200*

### Annunciators – GENERATOR OFF-LINE

**L DC GEN**

**R DC GEN**

- Indicates the associated generator is off-line or failed



# *King Air BE-200/B200*

**Annunciator – EXTERNAL POWER**

**EXT PWR**



## ***King Air BE-200/B200***

### **Annunciator – EXTERNAL POWER**

**EXT PWR**

- **Indicates external power plug is connected to the aircraft; does not indicate the operational status of the external power unit**





# *King Air BE-200/B200*

## Annunciator – BATTERY CHARGING

**BATTERY CHARGE**



## *King Air BE-200/B200*

### Annunciator – BATTERY CHARGING

**BATTERY CHARGE**

- Illumination indicates battery is being charged with 7 Amps or more for 6 seconds or more



# *King Air BE-200/B200*

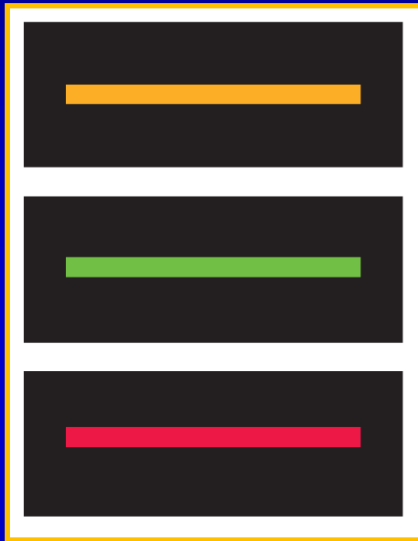
## Annunciators – BLANK ANNUNCIATOR





## ***King Air BE-200/B200***

### **Annunciators – BLANK ANNUNCIATOR**



- **Spare annunciator light position for optional equipment not installed. Spare lights should illuminate during annunciator test**



## *King Air BE-200/B200*

# Fuel System



# *King Air BE-200/B200*

## Annunciators - FUEL PRESSURE

L FUEL PRESS

R FUEL PRESS



## ***King Air BE-200/B200***

### **Annunciators - FUEL PRESSURE**

**L FUEL PRESS**

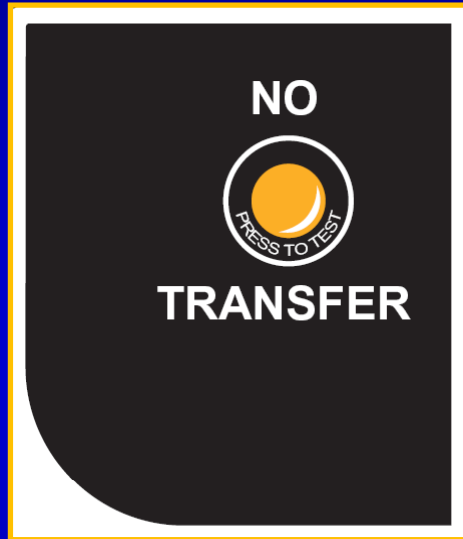
**R FUEL PRESS**

- **Indicates fuel pressure between the engine driven boost pump and the main fuel pump is below  $10 \pm 1$  PSI**



# *King Air BE-200/B200*

## Annunciator – FUEL TRANSFER FAILURE

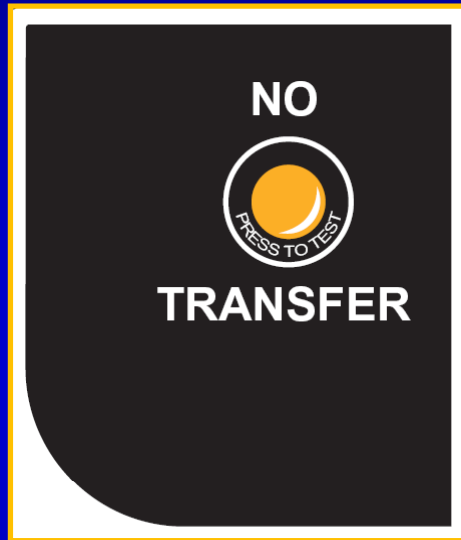






## ***King Air BE-200/B200***

### **Annunciator – FUEL TRANSFER FAILURE**



- **Indicates fuel is the auxiliary tank, and fuel is not transferring from the auxiliary tank to the nacelle tank**



# *King Air BE-200/B200*

**Annunciator – FUEL CROSSFEED SELECTED**

**FUEL CROSSFEED**



## ***King Air BE-200/B200***

### **Annunciator – FUEL CROSSFEED SELECTED**

**FUEL CROSSFEED**

- Indicates the fuel crossfeed switch is in the crossfeed position (left or right); the annunciator does not prove the valve is open



***King Air BE-200/B200***

# **Landing Gear System**



# *King Air BE-200/B200*

**Annunciator – HYDRAULIC FLUID LOW**

**HYD FLUID LOW**



## ***King Air BE-200/B200***

### **Annunciator – HYDRAULIC FLUID LOW**

**HYD FLUID LOW**

- **Indicates hydraulic fluid level in power pack is below critical level on the following:**
  - **aircraft with Beech Kit P/N 101-8018-1;**
  - **BB-1158 and BB-1167;**
  - **BB-1193 and subsequent;**
  - **BL-73 and subsequent**



# *King Air BE-200/B200*

**Annunciator – LANDING OR TAXI LIGHT ON**

**LDG/TAXI LIGHT**



## *King Air BE-200/B200*

**Annunciator – LANDING OR TAXI LIGHT ON**

**LDG/TAXI LIGHT**

- Indicates the landing and/or taxi lights are ON with the gear retracted





## *King Air BE-200/B200*

**Annunciator - LANDING GEAR IN TRANSITION OR UNSAFE**





## ***King Air BE-200/B200***

### **Annunciator - LANDING GEAR IN TRANSITION OR UNSAFE**



- **Indicates one ore more of the following:**
  - **landing gear in transit**
  - **one or more gear not down and locked**
  - **one or more gear not fully retracted**
  - **landing gear UP and one or both power levers below approximately 78%  $N_1$**
  - **landing gear UP and flaps extended beyond APPROACH position (regardless of power lever position)**



# *King Air BE-200/B200*

## Annunciator - LANDING GEAR DOWN





## *King Air BE-200/B200*

### Annunciator - LANDING GEAR DOWN



- If all three lights are not on, Left, right main gear, or nose gear may not be down and locked



## *King Air BE-200/B200*

# Flight Controls



# *King Air BE-200/B200*

## Annunciators – AUTOPILOT DISCONNECT

**A/P DISC**

**A/P FAIL**



## ***King Air BE-200/B200***

### **Annunciators – AUTOPILOT DISCONNECT**

**A/P DISC**

**A/P FAIL**

- **Sperry Equipped Aircraft:  
Autopilot disengaged by other  
than pilot's AP/YD (control  
wheel) disconnect switch**



# *King Air BE-200/B200*

## Annunciators – AUTOPILOT TRIM FAIL

**A/P TRIM FAIL**





## ***King Air BE-200/B200***

### **Annunciators – AUTOPILOT TRIM FAIL**



- **Sperry Equipped Aircraft:** Indicates improper trim commands, trim runaway, or trim failure. Control wheel trim switches activated with autopilot engaged



# *King Air BE-200/B200*

## Annunciators – ELECTRIC TRIM OFF

**ELEC TRIM OFF**



## *King Air BE-200/B200*

### Annunciators – ELECTRIC TRIM OFF

**ELEC TRIM OFF**

- **Sperry Equipped Aircraft:  
Electric elevator trim system is  
disarmed**



***King Air BE-200/B200***

**Environmental**



# *King Air BE-200/B200*

**Annunciators - CABIN OR CARGO DOOR UNLOCKED**

**CABIN DOOR**

**DOOR  
UNLOCK**



## ***King Air BE-200/B200***

### **Annunciators - CABIN OR CARGO DOOR UNLOCKED**



- **Indicates cabin airstair or cargo door is unlocked or open**



# *King Air BE-200/B200*

## Annunciators - CABIN ALTITUDE WARNING





## *King Air BE-200/B200*

### Annunciators - CABIN ALTITUDE WARNING



- Indicates cabin altitude is 12,500 ft or higher





# *King Air BE-200/B200*

**Annunciator – PASSENGER OXYGEN DEPLOYED**

**PASS OXY ON**



## ***King Air BE-200/B200***

### **Annunciator – PASSENGER OXYGEN DEPLOYED**

**PASS OXY ON**

- **Indicates passenger oxygen masks deployed. If masks automatically deploy and cabin altitudes descend below 12,500 ft, annunciator extinguishes. If manually deployed, annunciators will remain on**



# *King Air BE-200/B200*

**Annunciator – ALT WARN ON AND PASS OXY OFF**





## ***King Air BE-200/B200***

**Annunciator – ALT WARN ON AND PASS OXY OFF**



- **ALT WARN annunciator illuminated; PASS OXY ON annunciator not illuminated. Indicates the failure of automatic passenger mask deployment**



## *King Air BE-200/B200*

### Annunciators – ASSOCIATED BLEED AIR OFF

L BL AIR OFF

R BL AIR OFF



## ***King Air BE-200/B200***

### **Annunciators – ASSOCIATED BLEED AIR OFF**

**L BL AIR OFF**

**R BL AIR OFF**

- **Indicates the environmental bleed air valves are selected closed**



# *King Air BE-200/B200*

## Annunciators – BLEED AIR FAILURE

L BL AIR FAIL

R BL AIR FAIL



## ***King Air BE-200/B200***

### **Annunciators – BLEED AIR FAILURE**

**L BL AIR FAIL**

**R BL AIR FAIL**

- **Indicates a possible rupture of the bleed air line. Bleed air warning system is depressurized**





# *King Air BE-200/B200*

Annunciator – AIR CONDITION N<sub>1</sub> LOW

AIR COND N<sub>1</sub> LOW



## ***King Air BE-200/B200***

**Annunciator – AIR CONDITION N<sub>1</sub> LOW**

A rectangular display with a black background and a white border. The text 'AIR COND N1 LOW' is displayed in a bright green, bold, sans-serif font.

**AIR COND N<sub>1</sub> LOW**

- **Indicates air conditioning compressor clutch has disengaged due to right engine N<sub>1</sub> below approximately 62%.**



# *King Air BE-200/B200*

Annunciator – ELECTRIC HEAT ON

ELEC HEAT ON



## ***King Air BE-200/B200***

### **Annunciator – ELECTRIC HEAT ON**



- **Illumination indicates electric heat system operating. When system selected to OFF, the annunciator must extinguish before blowers are switched to OFF**



# *King Air BE-200/B200*

**Annunciator – DUCT OVER-TEMPERATURE**

**DUCT OVERTEMP**



## ***King Air BE-200/B200***

### **Annunciator – DUCT OVER-TEMPERATURE**

**DUCT OVERTEMP**

- **Indicates the environmental air duct temperature exceeds 149°C (300°F)**



## *King Air BE-200/B200*

# Ice and Rain



# *King Air BE-200/B200*

**Annunciator –BRAKE DE-ICE ON**

**BRAKE DEICE ON**





## *King Air BE-200/B200*

### Annunciator –BRAKE DE-ICE ON

**BRAKE DEICE ON**

- Indicates the brake deice switch is ON



# *King Air BE-200/B200*

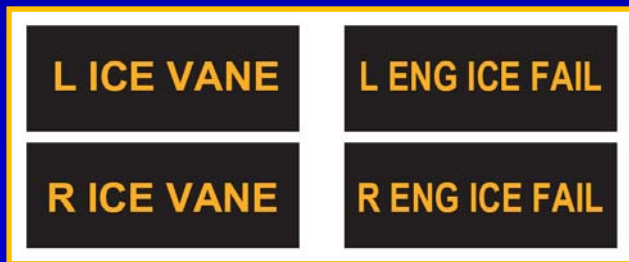
## Annunciators – ASSOCIATED ICE VANE FAIL

L ICE VANE	L ENG ICE FAIL
R ICE VANE	R ENG ICE FAIL



## ***King Air BE-200/B200***

### **Annunciators – ASSOCIATED ICE VANE FAIL**



- **Engine anti-ice vane position does not agree with the position of the ice vane switch**



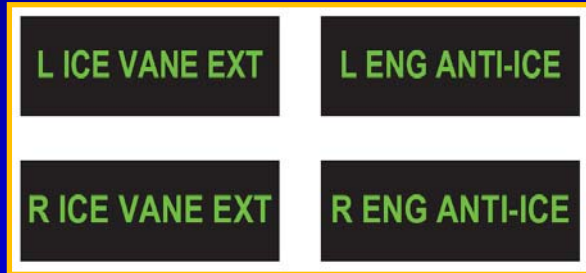
## *King Air BE-200/B200*

# Miscellaneous



# *King Air BE-200/B200*

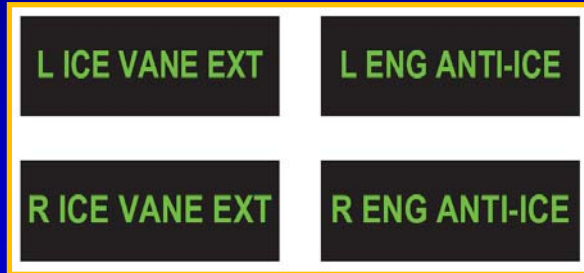
## Annunciators - ENGINE ANTI-ICE/ICE VANE ON





## ***King Air BE-200/B200***

### **Annunciators - ENGINE ANTI-ICE/ICE VANE ON**



- **Indicates the associated engine anti-ice / ice vane is on / extended**



*King Air BE-200/B200*

# Airspeeds and Limitations



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Single engine best angle of climb ( $V_{XSE}$ ):***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

**▪ 115 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Single engine best rate of climb ( $V_{YSE}$ ):***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **121 KIAS (blue line)**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Single engine en-route climb:***



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

**Answer:**

- **121 KIAS (blue line)**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Air minimum control speed ( $V_{MCA}$ ):***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **86 KIAS (red line)**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Emergency descent maximum speed:***





# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

**Answer:**

- **181 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum range glide:***



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

**Answer:**

- **135 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Minimum airspeed in icing conditions:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **140 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Turbulent air penetration:***



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

**Answer:**

- **170 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Airborne maneuvering speed ( $V_A$ ):***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **181 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Ground maneuvering speed:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **84 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum landing gear extend  
( $V_{LE}$ )/operate ( $V_{LO}$ ):***



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

**Answer:**

- **181 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum gear retraction:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **163 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum flaps 40% ( $V_{FE}$ ):***





# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

**Answer:**

- **200 KIAS (white triangle)**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Flaps 100%:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **146 KIAS (top of white arc) BE-200**
- **157 KIAS (top of white arc) BE-B200**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Balked landing climb speed ( $V_x$ ) full flaps:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **100 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Stall speed – flaps up ( $V_{S1}$ ):***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **99 KIAS (top of wide white arc)**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Stall speed – flaps 40%:***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **85 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Stall speed – flaps 100% ( $V_{SO}$ ):***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **75 KIAS (bottom of white arc)**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Safe single engine speed:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **104 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum speed ( $V_{NE}/V_{MO}$ ):***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **259 KIAS/.52 Mach or depending on serial no**
- **269 KIAS/.48 Mach (red line for  $V_{NE}$ /Barber pole for  $V_{MO}$ )**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Cruise climb profile:***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **To 10,000 ft. 160 KIAS**
- **To 20,000 ft. 140 KIAS**
- **To 25,000 ft. 130 KIAS**
- **Above 25,000 ft. 125 KIAS**



# *King Air BE-200/B200*

## Airspeeds and Limitations

$V_{NE}/V_{MO}$ :



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **BE-200 – 269 KIAS/.48 Mach**
- **BE-B200 – 259 KIAS/.52 Mach**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum effective windshield de-ice:***



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

**Answer:**

- **226 KIAS**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum operating pressure altitude:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **BE-200 – 31,000 ft. (some later SN 35,000 ft.)  
(see AFM)**
- **BE-B200 – 35,000 ft.**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum PSID (pressurization):***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **BE-200 – 6.1 PSID**
- **BE-B200 – 6.6 PSID**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Minimum battery volts for a battery start:***



# *King Air BE-200/B200*

## Airspeeds and Limitations

**Answer:**

- **23 Volts**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Minimum battery volts for plugging in a ground power unit:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **20 Volts**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***GPU limits:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **BE-200**
  - **28 to 28.2 Volts**
  - **400 Amps continuous**
  - **1,000 Amps surge**
- **BE-B200**
  - **28 to 28.4 Volts**
  - **300 Amps continuous**
  - **1,000 Amps surge**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Generator limits:***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **Up to 31,000 ft. – 100%**
- **Above 31,000 ft. – 88%**
- **On ground – 85%**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Starter limits:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **40 sec. on/60 sec. off**
- **40 sec. on/60 sec. off**
- **40 sec. on/30 min. off**
- **Optional 300 Amps Lear Siegler generator has different limits. See AFM.**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***OAT limits:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **Sea level to 25,000 ft. – ISA + 37°C**
- **Above 25,000 ft. – ISA + 31°C**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Towing limits:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **Do not tow with rudder gust lock installed**
- **Do not tow with deflated strut**
- **Do not exceed turn limit set by crush block**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum ramp weight:***





# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

**Answer:**

- **12,590 lbs**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum takeoff weight:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **12,000 lbs**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum zero fuel weight:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **BE-200 – 10,400 lbs**
- **BE-B200 – 11,000 lbs**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum landing weight:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **12,500 lbs**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Aviation gasoline limits:***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **150 hours/engine overhaul period**
- **31,000 ft maximum altitude**
- **20,000 ft maximum without crossfeed or if electric boost pump MEL'd**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Aux fueling limits (order of fueling):***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **Do not put any fuel in the Aux tanks unless the main tanks are full**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***When is crossfeed permitted?***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **Single engine operations only**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Minimum fuel quantity for takeoff:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **265 lbs or top of yellow arc**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum fuel imbalance:***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **1,000 lbs**



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

***How long can an engine be operated with the  
L/R FUEL PRESS annunciator on?***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **10 hours/high pressure fuel pump overhaul period**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum brake de-ice temperature:***



# *King Air BE-200/B200*

## Airspeeds and Limitations

**Answer:**

▪ **15°C**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum brake de-ice time  
(landing gear retracted):***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

▪ **10 min.**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Minimum de-icing boot operating temperature:***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **-40°C or -40°F**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum engine anti-ice temperature:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **15°C (in-flight)**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***When must the engine anti-ice be on?***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **On ground for FOD protection**
- **In-flight:**
  - **Below +5°C and flight free of visible moisture cannot be assured**

**ENG ANTI-ICE L or R**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***What are the gear cycle limits?***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

#### **Answer:**

- **Mechanical gear – no limit**
- **Hydraulic gear – 1 cycle each 5 minutes with a 15 minute cooldown after the 6<sup>th</sup> cycle**



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

***Are there any operational restrictions on the use of brake de-ice?***





## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **Yes**
  - **Brake de-ice cannot be operated more than 10 min after gear retraction**
  - **Cannot use if OAT is above 15°C**
  - **If also using the de-ice boots, the min  $N_1$  is 85%**
  - **Both sources of bleed air must be operating**
  - **Rudder boost may not function**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum continuous ITT:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **PT6A-41 is 750°C (solid red line)**
- **PT6A-42 is 800°C (solid red line)**



# ***King Air BE-200/B200***

## **Airspeeds and Limitations**

***Maximum ITT for start:***



## ***King Air BE-200/B200***

### **Airspeeds and Limitations**

**Answer:**

- **1,000°C for maximum 5 seconds**



## *King Air BE-200/B200*

# General Overview



# ***King Air BE-200/B200***

## **General Overview**

***What is the wing span?***



# *King Air BE-200/B200*

## General Overview

**Answer:**

- **54 ft. 6 inches.**





# ***King Air BE-200/B200***

## **General Overview**

***How tall is a King Air?***



# ***King Air BE-200/B200***

## **General Overview**

**Answer:**

- **15 ft. to top of rudder**



# ***King Air BE-200/B200***

## **General Overview**

***Air stair door limits:***



# ***King Air BE-200/B200***

## **General Overview**

### **Answer:**

- **One person on the air stair at any time**
- **300 lbs weight limit (military C12 only)**



# ***King Air BE-200/B200***

## **General Overview**

***Occupancy limits:***



# ***King Air BE-200/B200***

## **General Overview**

### **Answer:**

- **Part 91 – 15 (including crew)**
- **Part 135 – 9 Passengers (plus crew)**



# ***King Air BE-200/B200***

## **General Overview**

***Maneuver category:***



# ***King Air BE-200/B200***

## **General Overview**

**Answer:**

- **NORMAL – All aerobatic maneuvers including spins are prohibited**





# ***King Air BE-200/B200***

## **General Overview**

***Maximum demonstrated crosswind component:***



# *King Air BE-200/B200*

## General Overview

**Answer:**

- **25 Kts**



# ***King Air BE-200/B200***

## **General Overview**

***Maximum tailwind component (takeoff/landing):***



# *King Air BE-200/B200*

## General Overview

**Answer:**

▪ **10 Kts**



## *King Air BE-200/B200*

# Engine and Propeller



## ***King Air BE-200/B200***

### **Engine and Propeller**

***What is the maximum prop RPM under normal conditions?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

- **2,000 RPM (redline)**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What does it mean if the propeller is not controllable and is at 2,080 RPM?***





## ***King Air BE-200/B200***

### **Engine and Propeller**

#### **Answer:**

- **Primary governor has failed**
- **Fuel topping governor has also failed**
- **Reverse cannot be used as engine speed will not be controllable with primary/fuel topping governor failure**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What conditions have to be met for autofeather to function?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

- **Switch must be in “ARM” position**
- **Power levers must be above the 90% micro switches**
- **Both engines must be operating**

**AUTOFEATHER L or R**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***Is it possible for the second engine to autofeather?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

▪ **No:**

- **The first engine to autofeather will remove power from the second engine autofeather circuit**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What should the pilot do if the autofeather does not feather the propeller?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

- **Feather the propeller manually**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***Should the pilot feather the second engine in the event of a failure?***





## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

- **Only if a restart is not possible**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***Should the propeller syncrophaser be on during takeoff?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

- **Type 1 – No, it should be OFF**
  - **If left on, the PROP SYNC ON annunciator will illuminate**
- **Type 2 – It does not matter**

A rectangular graphic representing an annunciator. It consists of a white outer border, a black inner rectangle, and the text "PROP SYNC ON" in yellow capital letters centered within the black rectangle.

**PROP SYNC ON**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What RPM should be avoided with  
3-bladed props in the approach phase?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

- **1,750 to 1,850 RPM**
  - **Should be avoided as it may cause ILS signal interference**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What type of engine is installed on the BE-200/BE-B200:***



# ***King Air BE-200/B200***

## **Engine and Propeller**

**Answer:**

- **BE-200 – PT6A-41**
- **BE-B200 – PT6A-42**



## ***King Air BE-200/B200***

### **Engine and Propeller**

***How much horsepower does the engine develop under ideal conditions?***





## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

- **850 shaft horsepower**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***On a PT-6, what does free turbine (split shaft) mean?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

#### **Answer:**

- **The  $N_1$  and  $N_2$  shafts are not physically connected**
- **The engine can be started or idled with the propeller feathered (maximum of 1,100 lbs torque)**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***Are there potential problems with a feathered propeller on the ground for extended periods?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

#### **Answer:**

- **FOD on contaminated surfaces entering the engine, or eroding the propeller blades**
- **Higher-than-normal oil temperatures**
- **In certain wind conditions, damage may occur to the de-ice boots, or side windows due to excessive heat**
  - **Very low quartering tail wind, and not a common event**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What does “reverse flow” mean on this engine?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

#### **Answer:**

- **The intake air enters the engine at the rear, and the exhaust air exits at the front of the engine**
- **The airflow reverses at the combustion chamber in order to shorten the overall length of the engine**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What is the function of the P2.5 (low and high pressure) bleed valves?***





## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

- **To automatically open and close in order to vent excess pressure at power settings**
  - **This prevents compressor stalls**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What items are driven by the oil pump shaft?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

#### **Answer:**

- **Oil pump**
- **Two dual-element oil scavenge pumps**
- **The low pressure, engine-driven fuel pump**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***How is the fuel de-iced prior to the fuel control unit?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

#### **Answer:**

- **Hot oil is used to warm the fuel in the oil-to-fuel heat exchanger**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***When is the most accurate time to check the oil level?***



# ***King Air BE-200/B200***

## **Engine and Propeller**

**Answer:**

- **Within 15 minutes after shutdown**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***If the oil dipstick comes loose in-flight, what will happen?***





## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

- **All of the oil will be vented out of the engine**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***Does the engine have flame-out protection?***



# ***King Air BE-200/B200***

## **Engine and Propeller**

**Answer:**

- **Yes:**
  - **Auto-ignition comes on any time the torque drops below 400 lbs (if armed)**

**IGNITION ON L or R**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***Is the torque limited in the event of power being set too high?***



## ***King Air BE-200/B200***

### **Engine and Propeller**

**Answer:**

▪ **Yes:**

- **The torque limiter will vent air from the FCU resulting in power reduction**
- **Torque limiter is Calibrated at 2,430 lbs torque**
- **Engine surging is likely**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What should the pilot do if ITT limits are exceeded during start?***



# ***King Air BE-200/B200***

## **Engine and Propeller**

**Answer:**

- **Condition lever – CUTOFF**
- **Starter – STARTER ONLY**
- **Observe starter limits**



# ***King Air BE-200/B200***

## **Engine and Propeller**

***What should the pilot do if there is no ITT rise within 10 seconds after adding fuel during start?***





# ***King Air BE-200/B200***

## **Engine and Propeller**

### **Answer:**

- **Condition lever – CUTOFF**
- **Starter – OFF**
  - **Wait 60 seconds (minimum) for unburned fuel to drain**
- **Starter – STARTER ONLY**
  - **Observe starter limits**



*King Air BE-200/B200*

# Pneumatic and Pressurization



# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***What is the source of pressurization air?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **P<sub>3</sub> air (bleed air) from each engine using a flow pack on each side**



# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***How does a flow pack cool  $P_3$  air?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

#### **Answer:**

- **It uses expansion**
- **It uses mixing of ambient air**
- **The flow packs do not function on the ground**



# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***How is vacuum air generated?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **Instrument air is passed through an injector (Venturi)**





# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***What is vacuum air used for?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

#### **Answer:**

- **Deflating and holding the boots to the wings while not inflated**
- **Powering the copilot instruments**
  - **Attitude indicator**
  - **Turn and slip**
- **Powering the outflow valves to control pressurization**



# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***What powers the flight hour meter?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

#### **Answer:**

- **28 VDC power, controlled by a pressure switch measuring instrument air**



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

***Which engine must be running for the Freon AC system to operate?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **Right engine**



# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***What will happen if the aft blower is left on in-flight?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **The rear heater vents will only be used for AC cooling**





# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***What causes the BLEED AIR FAIL annunciator to illuminate?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **If a bleed air leak melts the Polyflow tubing, the pressure drop is detected**

**BL AIR FAIL L or R**



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

***If the bleed air switch is set to “INSTR&ENVIR OFF”, will the rudder boost function?***



## *King Air BE-200/B200*

### Pneumatic and Pressurization

**Answer:**

- **No**

**BL AIR OFF L or R**



# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***What is the function of the outflow valve?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **To control pressurization at the command of the pressurization controller**



# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***What is the function of the safety valve?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

#### **Answer:**

- **To open if the pressure exceeds maximum PSID**
- **To open if DUMP is selected**
- **To open on the ground  
(weight on wheels switch)**





# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***How should the pressurization be set prior to landing?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

#### **Answer:**

- **Such that there is 0 PSID upon landing**
- **500 ft. above field pressure altitude**
- **Use chart to determine proper setting for current field altimeter setting**



# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***Why is the pressurization set for  
1,000 ft above cruise altitude?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **To ensure that the max PSID is not reached**



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

***At what cabin altitude does the ALT WARN annunciator illuminate?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **12,500 ft.**

A rectangular warning box with a white background and a thin orange border. Inside the box is a solid red horizontal bar. The text 'ALT WARN' is centered in black, bold, uppercase letters within the red bar.

**ALT WARN**



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

***At what cabin altitude do the passenger masks automatically drop?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **12,000 ft.**





## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

***If the cabin is above 12,000 ft. and the passenger masks have not dropped, what can you do?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **Pull the manual drop handle**



# ***King Air BE-200/B200***

## **Pneumatic and Pressurization**

***If the O<sub>2</sub> system is not armed, is oxygen available?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

**Answer:**

- **No**
  - **Oxygen must be armed for the entire flight in order to prevent the arming mechanism from freezing in the OFF position**



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

***If the cabin is below 12,000 ft. and the passenger masks have dropped, how can the O<sub>2</sub> flow be stopped?***



## ***King Air BE-200/B200***

### **Pneumatic and Pressurization**

#### **Answer:**

- **Push the manual drop handle back in**
- **To de-activate the Barometric switch, pull the OXY CONTROL breaker**



## *King Air BE-200/B200*

# Electrical System



# ***King Air BE-200/B200***

## **Electrical System**

***What type of battery is used?  
Where is it located?***





## ***King Air BE-200/B200***

### **Electrical System**

#### **Answer:**

- **24 Volt NiCd (original equipment on older aircraft) or 24 Volt lead acid battery (most aircraft now have the lead acid battery)**
- **Located in the right wing center section forward of the spar**



# ***King Air BE-200/B200***

## **Electrical System**

***Why is it important to know if your aircraft has the NiCd battery?***



## ***King Air BE-200/B200***

### **Electrical System**

**Answer:**

- **They are subject to thermal runaway in-flight**
- **They have periodic maintenance requirements for deep cycle checks that do not apply to lead acid types**



# ***King Air BE-200/B200***

## **Electrical System**

***If the battery is below 23 Volts, how can the engine be started?***



# ***King Air BE-200/B200***

## **Electrical System**

**Answer:**

- **Ground power unit only**



# ***King Air BE-200/B200***

## **Electrical System**

***If the battery is below 20 volts, how can the engine be started?***



## ***King Air BE-200/B200***

### **Electrical System**

**Answer:**

- **It cannot be started**
- **The battery must be removed from the aircraft and recharged or replaced**



## ***King Air BE-200/B200***

### **Electrical System**

***If the battery is below 20 volts, will the GPU recharge the battery?***





## ***King Air BE-200/B200***

### **Electrical System**

**Answer:**

- **Yes, but in a harmful way**
  - **The wiring will be overloaded**
  - **The start contactor may weld**
  - **The battery will recharge at the max amperage of the GPU and potentially be damaged or overheat**
- **This is a violation of a limitation**



# ***King Air BE-200/B200***

## **Electrical System**

***Can the GPU connect if the battery switch is off?***



## ***King Air BE-200/B200***

### **Electrical System**

**Answer:**

- **No:**
  - **The GPU switch and the battery switch are the same**
- **The battery switch should be ON**



# *King Air BE-200/B200*

## Electrical System

*What causes the “EXT PWR” to illuminate?*



# ***King Air BE-200/B200***

## **Electrical System**

**Answer:**

- **A GPU plug is connected**
  - **It is detected by a micro switch**

A rectangular button with a black background and yellow text, labeled "EXT PWR". The button is centered within a white rectangular frame that has a thin yellow border.

**EXT PWR**



# ***King Air BE-200/B200***

## **Electrical System**

***How do you detect a failed isolation limiter?***



## ***King Air BE-200/B200***

### **Electrical System**

#### **Answer:**

- **With less than two generators online, the voltage on both sides should be equal**
  - **If not, an isolation limiter has failed**



# ***King Air BE-200/B200***

## **Electrical System**

***May the dual-fed buss 50 Amps breakers be reset in-flight?***





# *King Air BE-200/B200*

## Electrical System

**Answer:**

- **No**



# ***King Air BE-200/B200***

## **Electrical System**

***What causes the battery charge annunciator to illuminate?***



# ***King Air BE-200/B200***

## **Electrical System**

**Answer:**

- **A battery charge rate of at least 7 Amps for 6 seconds**

**BATTERY CHARGE**



## *King Air BE-200/B200*

# Fire Protection



# ***King Air BE-200/B200***

## **Electrical System**

***How does the older infrared system work?***



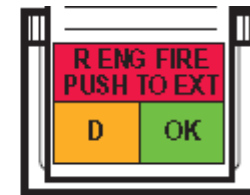
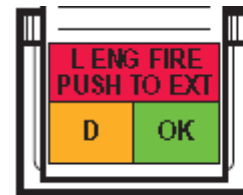
# ***King Air BE-200/B200***

## **Electrical System**

### **Answer:**

- **Three photoconductive cells for each engine**
- **Detects higher-than-normal heat (infrared) source and triggers L/R ENGINE FIRE annunciation**
- **Prone to false triggers due to stray light and rain in the engine cowl**

**ENG FIRE L or R**





# ***King Air BE-200/B200***

## **Electrical System**

***How does the fire detection system with the temperature detecting loop work?***



## ***King Air BE-200/B200***

### **Electrical System**

**Answer:**

- **Coaxial tube with dissimilar gasses detects heat using differing expansion rates**
- **System is very reliable**
  - **Detection could be a result of fire or possibly a bleed air leak**
  - **SN BB 1444 and after**





# ***King Air BE-200/B200***

## **Electrical System**

***Where would you find the optional fire extinguisher bottle?***



## ***King Air BE-200/B200***

### **Electrical System**

**Answer:**

- **Inside of the main landing gear well**



# ***King Air BE-200/B200***

## **Electrical System**

***Why would you need to check the fire bottle during preflight?***



## ***King Air BE-200/B200***

### **Electrical System**

**Answer:**

- **To verify that the charge pressure has not leaked**



# ***King Air BE-200/B200***

## **Electrical System**

***After using the first fire bottle, can the other bottle be used to fight the fire?***



# ***King Air BE-200/B200***

## **Electrical System**

**Answer:**

▪ **No:**

- **The fire bottle cannot cross over to the other side**



# ***King Air BE-200/B200***

## **Electrical System**

***What does the “FIRE EXT” test do?***



# ***King Air BE-200/B200***

## **Electrical System**

**Answer:**

- **It tests the electrical capability of the system to fire**





# ***King Air BE-200/B200***

## **Electrical System**

***If the battery switch is OFF, and the FIRE EXTINGUISHER switch is pushed, will it fire?***



## ***King Air BE-200/B200***

### **Electrical System**

**Answer:**

▪ **Yes:**

- **The fire extinguisher is on the hot battery bus, and will fire any time**



## ***King Air BE-200/B200***

### **Electrical System**

***How many hand fire extinguishers should be inside the aircraft?***



## ***King Air BE-200/B200***

### **Electrical System**

**Answer:**

- **Two:**
  - **One in the cockpit, under the copilot seat**
  - **One in the back, near the air stair door**



# ***King Air BE-200/B200***

## **Electrical System**

***How are the portable fire extinguishers preflighted?***



## ***King Air BE-200/B200***

### **Electrical System**

#### **Answer:**

- **Check pressure inside of the green arc**
- **Check expiration date on tag**



## *King Air BE-200/B200*

# Ice and Rain



# ***King Air BE-200/B200***

## **Ice and Rain**

***Procedure for L/R ENG ANTI-ICE FAIL  
(electric standby system):***





# ***King Air BE-200/B200***

## **Ice and Rain**

**Answer:**

- **Use standby actuator motor to extend and retract**

**ENG ICE FAIL L or R**



# ***King Air BE-200/B200***

## **Ice and Rain**

***What powers the de-ice boots?***



## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **Pneumatic air (18 PSI) inflates and suction air deflates and holds them to the surface**



# ***King Air BE-200/B200***

## **Ice and Rain**

***What does "SINGLE CYCLE" do?***



# ***King Air BE-200/B200***

## **Ice and Rain**

### **Answer:**

- **Inflates the wing boots for 6 seconds, followed by 4 seconds to the wing**



## ***King Air BE-200/B200***

### **Ice and Rain**

***Referring to the de-ice boots, what does the “MANUAL” switch position do?***



## ***King Air BE-200/B200***

### **Ice and Rain**

**Answer:**

- **Inflates all boots for the period of time that the switch is held**



# ***King Air BE-200/B200***

## **Ice and Rain**

***When should the de-ice boots be cycled?***





## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **After ½ to 1 inch of ice**
- **Never during takeoff**



# ***King Air BE-200/B200***

## **Ice and Rain**

***How is the engine inlet heated?***



## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **Engine exhaust is directed through the engine inlet ring**



# ***King Air BE-200/B200***

## **Ice and Rain**

***How do the ice vanes (engine anti-ice) work?***



## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **When the system is on, particulate matter (FOD or ice) is vented out to the bottom of the engine cowling, while the clean air is drawn up into the engine.**



# ***King Air BE-200/B200***

## **Ice and Rain**

***When must the engine anti-ice be on?***



## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **On ground for FOD protection**
  - **Oil temps may be higher than normal**
- **In-flight**
  - **Below +5°C and flight free of visible moisture cannot be assured**



# ***King Air BE-200/B200***

## **Ice and Rain**

***Are there any limitations on propeller heat?***





# ***King Air BE-200/B200***

## **Ice and Rain**

**Answer:**

- **Yes:**
  - **The propeller must be turning in order to prevent damage**



# ***King Air BE-200/B200***

## **Ice and Rain**

***When the prop heat is set to “AUTO”, what is the cycle?***



# ***King Air BE-200/B200***

## **Ice and Rain**

### **Answer:**

- **Three-blade props (with dual boots)**
  - **4-30 sec timer sequence**
  - **Outer, inner, – other side – outer, inner**
  - **14 to 18 Amps for each segment**
- **Four-blade props (single boot system)**
  - **90 sec sequentially on each prop**
  - **18 to 24 Amps for each segment**



# ***King Air BE-200/B200***

## **Ice and Rain**

***When the prop heat is set to “MANUAL”, what is the cycle?***



# ***King Air BE-200/B200***

## **Ice and Rain**

### **Answer:**

- **Three-blade props (with dual boots)**
  - **No timer sequence**
  - **Manual inner heats both prop inner boots while switch is held**
  - **Manual outer heats both outer while switch held**
- **Four-blade props (single boot system)**
  - **No timer sequence, both props heated while switch held**



# ***King Air BE-200/B200***

## **Ice and Rain**

***How can the pilot tell that the prop heat is functioning in manual mode?***



## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **The prop amp meter will not work**
- **The pilot must observe the slight increase in load meters when activated**



# ***King Air BE-200/B200***

## **Ice and Rain**

***When operating the windshield anti-ice system,  
what are the best practices?***





## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **Do not allow windshield to become cold soaked**
  - **Use windshield heat any time the temp is below 5°C**
  - **Some checklists have windshield heat in the climb check**
  - **Windshield heat should be off on ground in warm weather to avoid delaminating**



# ***King Air BE-200/B200***

## **Ice and Rain**

***What does the “NORMAL” windshield heat switch position do?***



## ***King Air BE-200/B200***

### **Ice and Rain**

**Answer:**

- **Heats the entire windshield panel**
- **Heat is not thermostatically controlled**



# ***King Air BE-200/B200***

## **Ice and Rain**

***What does the “HIGH” windshield heat switch position do?***



## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **Heats only the outer two-thirds of windshield panel**
- **Heat is thermostatically controlled at 100 to 105°F**



# ***King Air BE-200/B200***

## **Ice and Rain**

***What is the max effective windshield anti-ice speed?***



# *King Air BE-200/B200*

## Ice and Rain

**Answer:**

▪ **226 Kts**



# ***King Air BE-200/B200***

## **Ice and Rain**

***What is meant by the slang term “hot 5 ON”?***





## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **Left and right pitot heat – ON**
- **Left and right fuel vent heat – ON**
- **Stall warning heat – ON**
- **These should be final items before each takeoff**



# ***King Air BE-200/B200***

## **Ice and Rain**

***Will the stall warning heat function on the ground?***



## ***King Air BE-200/B200***

### **Ice and Rain**

**Answer:**

- **Yes, but at a reduced power**



# ***King Air BE-200/B200***

## **Ice and Rain**

***Can the windshield wipers be used on a dry windshield?***



## ***King Air BE-200/B200***

### **Ice and Rain**

**Answer:**

- **No:**
  - **It causes windshield damage**



# ***King Air BE-200/B200***

## **Ice and Rain**

### ***Procedure for L/R ICE VANE FAIL (manual backup system)***



## ***King Air BE-200/B200***

### **Ice and Rain**

#### **Answer:**

- **Extend and retract with manual handles**
- **Do not use electric motors until system reset in maintenance**
- **Pull ice vane breakers, and use switches to match position of handles in order to retain function of annunciators**



# *King Air BE-200/B200*

# Flight Controls





# *King Air BE-200/B200*

## Flight Controls

*What powers the primary flight controls?*



# ***King Air BE-200/B200***

## **Flight Controls**

**Answer:**

- **The pilot, through cables and push rods**



# ***King Air BE-200/B200***

## ***Flight Controls***

***What powers the flaps?***



# ***King Air BE-200/B200***

## ***Flight Controls***

**Answer:**

- **Electric motor through flexible drives and screw-type actuators**



# ***King Air BE-200/B200***

## **Flight Controls**

***Is there split flap protection?***



## ***King Air BE-200/B200***

### **Flight Controls**

#### **Answer:**

- **Yes, between inside and outside flap panels only**
- **There is no split flap protection between the right and left side of the aircraft**
- **If activated, the flaps will not move**



# ***King Air BE-200/B200***

## **Flight Controls**

***How are the trim tabs preflighted?***



## ***King Air BE-200/B200***

### **Flight Controls**

#### **Answer:**

- **With tabs set to zero, all tabs should align with trailing edge of respective surface**
- **There is no tolerance on the elevator trim**





# *King Air BE-200/B200*

## Flight Controls

*What powers the rudder boost?*



# ***King Air BE-200/B200***

## **Flight Controls**

**Answer:**

- **Instrument air (18 PSI bleed air)**



# ***King Air BE-200/B200***

## **Flight Controls**

***What causes the rudder boost to activate?***



# ***King Air BE-200/B200***

## **Flight Controls**

**Answer:**

- **Rudder boost activation occurs if there is a 60 PSI difference between  $P_3$  output of each engine**



## *King Air BE-200/B200*

# Landing Gear System



# ***King Air BE-200/B200***

## **Landing Gear System**

***What causes the gear horn warn to sound?***



# ***King Air BE-200/B200***

## **Landing Gear System**

### **Answer:**

- **Throttle below a preset position (approximately 70%)**
- **Flaps past approach**



# ***King Air BE-200/B200***

## **Landing Gear System**

***Can the gear warning be silenced?***





## ***King Air BE-200/B200***

### **Landing Gear System**

#### **Answer:**

- **If caused by power lever position, it can be silenced**
- **If caused by flaps past approach, then it cannot be silenced**
- **In either case, the gear handle will remain red**



# ***King Air BE-200/B200***

## **Landing Gear System**

***Does a King Air have uplocks?***



## ***King Air BE-200/B200***

### **Landing Gear System**

**Answer:**

- **No**
- **On the mechanical gear, they are held in the up position by friction**
- **On the hydraulic gear, they are held up by hydraulic pressure**



# ***King Air BE-200/B200***

## **Landing Gear System**

***What holds the gear down?***



## ***King Air BE-200/B200***

### **Landing Gear System**

#### **Answer:**

- **On the mains, over-center locks**
- **On the nose:**
  - **Mechanical nose gear held in position by geometry of actuator**
  - **Hydraulic nose gear has a locking pin in the nose gear hydraulic ram actuator**



# ***King Air BE-200/B200***

## **Landing Gear System**

***How much system pressure does the hydraulic gear use?***



## ***King Air BE-200/B200***

### **Landing Gear System**

**Answer:**

- **2,775 PSI in the up position**
  - **When the system pressure drops 300 lbs, the pressure switch cycles the pump on**
- **0 PSI in the down position:**
  - **The system uses mechanical locks**



# ***King Air BE-200/B200***

## **Landing Gear System**

***What type of fluid does the hydraulic gear use?***





# ***King Air BE-200/B200***

## **Landing Gear System**

**Answer:**

- **MIL-H-5606**



# ***King Air BE-200/B200***

## **Landing Gear System**

***What type of fluid is used in the brakes?***



# ***King Air BE-200/B200***

## **Landing Gear System**

**Answer:**

- **MIL-H-5606**



# ***King Air BE-200/B200***

## **Landing Gear System**

***How is the parking brake set?***



# ***King Air BE-200/B200***

## **Landing Gear System**

**Answer:**

- **Depress brakes and hold, then pull the parking brake handle**



# ***King Air BE-200/B200***

## **Landing Gear System**

***How is the parking brake released?***



# ***King Air BE-200/B200***

## **Landing Gear System**

**Answer:**

- **Depress brakes and hold, then push the parking brake handle**



## *King Air BE-200/B200*

# Fuel System





# ***King Air BE-200/B200***

## **Fuel System**

***What is the capacity of each main tank?***



# ***King Air BE-200/B200***

## **Fuel System**

**Answer:**

- **193 U.S. gallons (usable)**



# ***King Air BE-200/B200***

## **Fuel System**

***What is the capacity of each auxiliary tank?***



# ***King Air BE-200/B200***

## **Fuel System**

**Answer:**

- **79 U.S. gallons (usable)**



# ***King Air BE-200/B200***

## **Fuel System**

***What is the total capacity of each wing?***



# ***King Air BE-200/B200***

## **Fuel System**

**Answer:**

- **272 U.S. gallons**



# ***King Air BE-200/B200***

## **Fuel System**

***How does fuel get from the wing to the nacelle?***



# *King Air BE-200/B200*

## Fuel System

**Answer:**

- **Gravity flow**





# ***King Air BE-200/B200***

## **Fuel System**

***How does fuel get from the auxiliary tank up to the nacelle?***



## ***King Air BE-200/B200***

### **Fuel System**

**Answer:**

- **Motive flow; fuel, under pressure, flows through a jet pump (Venturi) and drawn out of the auxiliary tank and routed into the nacelle**



# ***King Air BE-200/B200***

## **Fuel System**

***What is a jet transfer pump?***



# ***King Air BE-200/B200***

## **Fuel System**

**Answer:**

- **It is a Venturi**
- **It uses suction generated by the fuel flow to draw the fuel from the auxiliary tank**



# ***King Air BE-200/B200***

## **Fuel System**

***What is the purpose of the standby boost pump?***



# ***King Air BE-200/B200***

## **Fuel System**

### **Answer:**

- **It is to provide backup for the engine-driven fuel boost pump**
- **It is used if crossfeed is selected**



# ***King Air BE-200/B200***

## **Fuel System**

***When crossfeed is selected, what four things occur?***



# ***King Air BE-200/B200***

## **Fuel System**

### **Answer:**

- **Crossfeed light comes on**
- **Standby boost pump activates on the supply side**
- **Crossfeed valve opens**
- **Motive flow valve closes on the receiving side**





# ***King Air BE-200/B200***

## **Fuel System**

***How long is engine operation permissible with the “L/R LOW FUEL PRESS” light on?***



# *King Air BE-200/B200*

## Fuel System

**Answer:**

- **10 hours between overhaul/replacement of the high pressure fuel pump**

**FUEL PRESS L or R**



# ***King Air BE-200/B200***

## **Fuel System**

***What is indicated by the illumination of the “L/R  
LOW FUEL PRESS” light?***



## ***King Air BE-200/B200***

### **Fuel System**

#### **Answer:**

- **Low pressure, engine-driven boost pump has failed**
- **Also could indicate failure of an oil scavenge pump as they share the same drive shaft**



# ***King Air BE-200/B200***

## **Fuel System**

***What does illumination of the “NO TRANSFER”  
light indicate?***



# ***King Air BE-200/B200***

## **Fuel System**

### **Answer:**

- **It is normal for this light to be on for 30 to 45 seconds after engine start**
- **Fuel is not transferring from the aux tank to the nacelle**
  - **There is fuel in the Aux Tank**
  - **Motive flow pressure switch does not see pressure**





# ***King Air BE-200/B200***

## **Fuel System**

***Why would the “NO TRANSFER” light flicker in-flight?***



## ***King Air BE-200/B200***

### **Fuel System**

#### **Answer:**

- **It is the unusable fuel sloshing in turbulence**
- **The float switch must indicate fuel continuously for 30 to 45 sec for the timer to open the motive flow valve**





# ***King Air BE-200/B200***

## **Fuel System**

***What operational limitations would exist if flying with a standby boost pump out of inoperative?***



# *King Air BE-200/B200*

## Fuel System

**Answer:**

- **Crossfeed would not be available from the side of the inoperative boost pump**



# ***King Air BE-200/B200***

## **Fuel System**

***What will be the indication of a high pressure fuel pump failure?***



# *King Air BE-200/B200*

## Fuel System

**Answer:**

- **The engine will fail**



## ***King Air BE-200/B200***

### **Fuel System**

***When draining fuel for the purpose of separating water and debris, how long must you wait after moving or refueling the aircraft?***



# ***King Air BE-200/B200***

## **Fuel System**

**Answer:**

- **A minimum of three hours**



# ***King Air BE-200/B200***

## **Fuel System**

***Why should the fuel tanks be sumped regularly in order to reduce water content?***



# ***King Air BE-200/B200***

## **Fuel System**

**Answer:**

- **To reduce fungus growth**
- **To reduce fuel gauge inaccuracy**





# ***King Air BE-200/B200***

## **Fuel System**

***What fuel additive should be used in order to reduce fungus growth?***



# ***King Air BE-200/B200***

## **Fuel System**

**Answer:**

- **Biobor JF (preferred)**
- **Prist can also be used**



# ***King Air BE-200/B200***

## **Fuel System**

***Can Prist be added any time?***



# *King Air BE-200/B200*

## Fuel System

**Answer:**

- **It must be properly blended with the fuel**
  - **Pre-mix**
  - **Blended as the fuel is pumped into the tank**



# ***King Air BE-200/B200***

## **Fuel System**

***Is the use of Prist required?***



## ***King Air BE-200/B200***

### **Fuel System**

**Answer:**

- **No, it is optional, but should be used if the fuel is allowed to cool below approximately  $-20^{\circ}\text{C}$**