REPLACING THE BATTERY

To install or replace the ANR battery, open the battery door by sliding the door in a downward motion until it unlatches and lift up as shown in diagram A.

Slide the 9-volt battery in with the larger battery contact on the bottom. If you put the battery in upside down, it will not activate. See diagram B.

Battery life is dependent on the ambient noise in the aircraft, but should provide a minimum of 20 hours of continuous use.

CAUTION: Bias voltage supplied to the microphone must come from voltage and resistance ranges specified below. Voltages supplied in excess of those stated in the specifications can cause microphone failure and void the warranty. The mic audio signal is present between the ring and barrel of the mic plug; tip is reserved for transmit keyline.

SPECIFICATIONS

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<th>D30MPH - Mono, Passive Helicopter w/ U174 plug</th>
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<td>12.9</td>
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<td>Maximum Power Input</td>
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<td>Noise Reduction Rating</td>
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<td>Type</td>
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<td>DC Bias Voltage</td>
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<td>Supply Voltage</td>
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<td>Sensitivity (dB @ 1kHz)</td>
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<td>Noise Rejection Ratio (dB @ 1kHz)</td>
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<td>Maximum Speech Level</td>
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<tr>
<td>Maximum Ambient Noise Level</td>
<td>132 dBspl*</td>
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</table>

*Sensitivity measurements referred to 0.0002 ubar (dyne/cm²) @ 1kHz. Microphone measurements made with 10-volt supply with a 1000 ohm resistor.

Contact Flightcom for the most current ANR specifications.
Outward dome rotation

Denali's ear domes rotate not only in an up and down direction, but also from side-to-side. This allows the size of the headband to be adjusted for maximum comfort around the ear and jaw area.

INDIVIDUAL EAR DOME ADJUSTMENTS

Denali's ear domes rotate not only in an up and down direction, but also from side-to-side. This allows for maximum adjustment around the ear and jaw area.

• Once the headset is in place and the headband is adjusted properly, you may want to individually rotate the dome and ear cup around each ear, to determine the most comfortable position.

• If during an extended flight you start to feel a bit of pressure point, adjust the ear cup or the length of the headband to rotate comfort.

Inward dome rotation

Denali headsets accommodate the differences in head shapes and sizes of the pilot population through angled ear domes, the shape and surface area of the ear seal, low side force and a light-weight design. When worn properly, you will feel very little pressure on top of the head, which is a refreshing departure from the traditional fit and feel of an older style aviation headset.

Additionally, personalized fit adjustments can be made in the length of the headband, the rotation of each ear cup, both side-to-side and up and down, and the placement of the boom and microphone.

PERSONALIZED HEADBAND ADJUSTMENTS

• Hold the Denali headset in front of you. Place the dome that holds the mic boom in your left hand.

• Extend the headband in a downward direction, on both sides, until the top of the headset seems to “disappear.” Make sure you have extended the headband equally on both sides.

• Place the headset on your head. If the domes feel as if they’re sitting too low on your ears, starting on one side of the headband, move the headband slider to a smaller position, ensuring both sides are adjusted equally.

• Insert the larger headset plug into the jack marked “headphone” or “phone” (on your aircraft com panel, intercom or radio).

• Insert the smaller headset plug into the jack marked “microphone” or “mic.”

• Set the stereo/mono switch on the cable splitter box to the “M” position. If connecting to a stereo intercom, set the switch to the “S” position.

• If you are not sure about the type of intercom in the aircraft, test the headset by selecting the “S” position and taking into the headset. If you hear syllable from one ear only, you have a mono intercom. Move the switch to “M.”

• For the ANR model: The stereo/mono switch is located on the back of the in-line battery box, near the clip.

• Adjust the headband sliders for proper fit and comfort, making sure the boom is being worn on the left side of the head.

• Individual volume controls are located on the front of each earphone to reduce or adjust the level of audio in each headset ear cup.

• For the ANR model: Once the 9-volt battery is installed, turn the ANR power to the ON position, indicated with the symbol “.” The OFF position is indicated with an “O.” A blinking green LED indicates the active noise cancellation circuit is ON. A blinking red LED indicates low battery life.

• For proper battery installation, see the diagram in the Care and Maintenance section of this guide.

• If the aircraft does not have a built-in push-to-talk (PTT) switch, a portable PTT switch must be installed in order to use the radio.

• An avionics technician should optimize the master gain control located in the aircraft radio whenever adding a new model microphone to the system.

Sure Power System(SPS): To conserve battery life, ANR models will automatically shut off the ANR circuit if no audio is sensed by the headset for a period of 28 minutes. Full passive performance is maintained. ANR operation is reactivated by turning the ANR power switch to the OFF position and back to the ON position, indicated with the symbol “.”

GENERAL CARE

As with most electronic equipment, it’s important to protect your Denali headset from exposure to the elements. Do not leave the headset on the seat of a plane or car, or in intense, direct sunlight exceeding 105°F. Do not leave the headset out in the rain or in freezing temperatures. Return the headset to its carrying case and store in a cool, dry area.
Denali’s ear domes rotate not only in an up and down direction, but also from side-to-side. This allows a refreshing departure from the traditional fit and feel of an older style aviation headset. When worn properly, you will feel very little pressure on top of the head, which is a through angled ear domes, the shape and surface area of the ear seal, low side force and a light-weight design. When worn properly, you will feel very little pressure on top of the head, which is a refreshing departure from the traditional fit and feel of an older style aviation headset. Additionally, personalized fit adjustments can be made in the length of the headband, the rotation of each ear cup, both side-to-side and up and down, and the placement of the boom and microphone.

**PERSONALIZED HEADBAND ADJUSTMENTS**

- Hold the Denali headset in front of you. Place the dome that holds the mic boom in your left hand.
- Extend the headband to full extension. When you have reached the maximum headband extension, the headband slider will stop. Make sure you have extended the headband evenly on both sides.
- Place the headset on your head. If the domes feel as if they’re sitting too low on your ears, starting on one side of the headband, move the headband slider to a smaller position, ensuring both sides are adjusted equally.

**IMPORTANT:** While wearing the Denali, you should feel very little pressure on top of your head. THIS IS NORMAL AND OPTIMAL.

If you’re an experienced headset wearer, you may have a tendency to reduce the headband size until you feel a familiar pressure on the top of your head or at the top of your jawbone. For Denali, this indicates you’ve actually reduced the size of the headband too much. Extend the headband in a downward direction, on both sides, until the top of the headset seems to “disappear.” Check for a secure fit by shaking your head from side to side. Denali should remain firmly in place—without creating undue pressure on the top of the head.

**INDIVIDUAL EAR DOME ADJUSTMENTS**

Denali’s ear dome rotates not only in an up and down direction, but also from side-to-side. This allows for maximum adjustment around the ear and jaw area.

- Once the headset is in place and the headband is adjusted properly, you may want to individually rotate the dome and ear cup around each ear, to determine the most comfortable position.
- If during an extended flight you start to feel a bit of a pressure point, and rotate the dome or cup of the headband to restore comfort.

**MICROPHONE AND BOOM ADJUSTMENTS**

- Adjust the mic boom for proper fit and comfort. Place the microphone no more than 1/8” from lips, at the corner of the mouth. This is critical to the performance of the noise-canceling electret microphone.
- For the ANR model: Set the stereomono switch on the control box to the “S” position and talking into the headset. If you hear side-tone out of one ear only, you have a mono intercom. Move the switch to “M.”

**INSTALLATION**

- Insert the larger headset plug into the jack marked “headphone” or “phone” (on your aircraft com panel, intercom or radio).
- Insert the smaller headset plug into the jack marked “microphone” or “mic.”
- Set the stereomono switch on the control box to the “S” position.
- If you are not sure about the type of intercom in the aircraft, test the headset by selecting the “S” position and taking into the headset. If you hear side-tone out of one ear only, you have a mono intercom. Move the switch to “M.”
- For the ANR model: The stereomono switch is located on the back of the in-line battery box, near the clip.
- Adjust the headband sliders for proper fit and comfort, making sure the boom is being worn on the top left side of the head. Individual volume controls are located on the front of each ear dome to reduce or adjust the level of audio in each headset ear cup.
- For the ANR model: Once the 9-volt battery is installed, turn the ANR power to the ON position, indicated with the symbol “.” The OFF position is indicated with an “o.” A blinking green LED indicates the active noise cancellation circuit is ON. A blinking red LED indicates low battery life. For proper battery installation, see the diagram in the Care and Maintenance section of this guide.
- The ANR circuit is set to shut off automatically after 28 minutes of continuous use. This is a normal part of the battery circuits.
- If the aircraft does not have a built-in push-to-talk (PTT) switch, a portable PTT switch must be installed in order to use the radio.

An avionics technician should optimize the master gain control located in the aircraft radio. If the aircraft does not have a built-in push-to-talk (PTT) switch, a portable PTT switch must be installed in order to use the radio.

Sure Power System (SPS): To conserve battery life, ANR models will automatically shut off the ANR circuit if no audio is sensed by the headset for a period of 28 minutes. Full passive performance is maintained. ANR operation is reactivated by turning the ANR power switch to the OFF position and back to the ON position, indicated with the symbol “.”

**GENERAL CARE**

As with most electronic equipment, it’s important to protect your Denali headset from exposure to the elements. Do not leave the headset on the seat of a plane or car, or in intense, direct sunlight exceeding 156°F. Do not leave the headset out in the rain or in freezing temperatures. Return the headset to its carrying case and store in a cool, dry area.

**IMPORTANT USER INFORMATION**

**WARNING:** Do not store your Denali headset in temperatures that exceed 156°F Fahrenheit. Do not leave it in the sun, or hanging on the yoke of your aircraft, or exposed in conditions where the surface area of the headset might exceed this high temperature.

Under certain conditions, a mic muff might be necessary. A mic muff is provided for your convenience. We also recommend that in the interest of hygiene, you replace your ear seals at least annually.

**FITTING INSTRUCTIONS**

**DENALI EAR SEAL REMOVAL AND INSTALLATION**

**REMOVAL**

Your new Denali ear seals are permanently attached to the hard plastic backing plate. Do not attempt to remove the ear seal from the backing plate.

To remove the ear seal assembly, look inside the ear seal opening, half way down either side of the ear cup. You will notice a small cut-out just large enough to place your finger tip under the backing plate. Pull the backing plate (with the ear seal) away from the ear cup. Note: It will take a bit of force and the ear seal will pop off of the ear cup.

**INSTALLATION**

Lay the gasket (for ANR models only) flat on the ear seal backing plate. The gasket must have no wrinkles. Carefully position the backing plate (with the gasket) on the ear cup and apply even pressure with your fingers spaced around the circumference of the ear seal backing plate and then snap on to the ear cup. Note: the backing plate must not have any space between it and the ear cup.

**DENALI HEADPAD REMOVAL AND INSTALLATION**

Your new Denali headpad is permanently attached to the backing plate. Do not remove the headpad from the backing plate. To remove the headpad, pull on each side of the headpad and it will snap out of position on the headband. To install the headpad, line it up to the top of the headband and then snap into position.

**PLUG CONNECTION CHART**

**Helmcopter Plug**

- 0-1/8” from lips

**WARNING:** To clean the Denali headset, earseals, or headpad, dampen a non-abrasive cloth with water and mild soap. After cleaning, wipe dry with a soft cloth. Note: do not allow any water to seep into the ear dome.

**IMPORTANT:** Do not immerse the headset in water. Never use bleach on ear seals, headpad, or any other part of the Denali headset.

**GENERAL CLEANING**

To clean the Denali headset, earseals, or headpad, dampen a non-abrasive cloth with water and mild soap. After cleaning, wipe dry with a soft cloth. Note: do not allow any water to seep into the ear dome.

**IMPORTANT:** Do not immerse the headset in water. Never use bleach on ear seals, headpad, or any other part of the Denali headset.
Denali’s ear domes rotate not only in an up and down direction, but also from side-to-side. This allows refreshingly the size of the headband too much. It is critical to the performance of the noise-canceling electronics.

**IMPORTANT:** All Denali mic domes are shipped from the factory for wearing on the left side of the head only. Because the domes are canted to match the angle of the ears, the boom can ONLY be worn on the left side.

**CAUTION:** Rotating the boom beyond the “stop” will cause non-warranty damage to the boom.

**PERSONALIZED HEADBAND ADJUSTMENTS**
- **Hold the Denali headset in front of you.** Place the dome that holds the mic boom in your left hand.
- **Extend the headband to full extension.** When you have reached the maximum headband extension, the headband slider will stop. Make sure you have extended the headband equally on both sides.
- **Place the headset on your head.** If the domes feel as if they’re sitting too low on your ears, starting on one side of the headband, move the headband slider to a smaller position, ensuring both sides are adjusted equally.

**IMPORTANT:** While wearing the Denali, you should feel very little pressure on top of your head. THIS IS NORMAL AND OPTIMAL.

If you’re an experienced headset wearer, you may have a tendency to reduce the headband size until you feel a familiar pressure on the top of your head or at the top of your jawbone. For Denali, **this indicates you’ve actually reduced the size of the headband too much.** Extend the headband in a downward direction, on both sides, until the top of the headset seems to “disappear.” Check for a secure fit by shaking your head from side to side. Denali should remain firmly in place—without creating undue pressure on the top of the head.

**INDIVIDUAL EAR DOME ADJUSTMENTS**
Denali’s ear domes rotate not only in an up and down direction, but also from side-to-side. This allows for maximum adjustment around the ear and jaw area.
- **Once the headset is in place and the headband is adjusted properly, you may want to individually rotate the dome and ear cup around each ear, to determine the most comfortable position.**
- **If during an extended flight you start to feel a bit of a pressure point, alter the dome or up/length of the headband to restore comfort.**

**MICROPHONE AND BOOM ADJUSTMENTS**
- **Adjust the mic boom for proper fit and comfort.** Place the microphone no more than 1/8” from lips, at the corner of the mouth. This is critical to the performance of the noise-canceling electronics.

**INSTALLATION**
- **Insert the larger headset plug into the jack marked “headphone” or “phone” (on your aircraft com panel, intercom or radio).**
- **Insert the smaller headset plug into the jack marked “microphone” or “mic.”**
- **Set the stereo/mono switch on the cable splitter box to the “M” position.** If connecting to a stereo intercom, set the switch to the “S” position.
- **If you are not sure about the type of intercom in the aircraft, test the headset by selecting the “S” position and taking into the headset. If you hear sidetone from one ear only, you have a mono intercom. Move the switch to “M.”**
- **For the ANR model:** The stereo/mono switch is located on the back of the in-line battery box, near the clip.
- **Adjust the headband sliders for proper fit and comfort, making sure the boom is being worn on the left side of the head.**
- **Individual volume controls are located on the front of each ear dome to reduce or adjust the level of audio in each headset ear cup.**
- **For the ANR model:** Once the 9-volt battery is installed, turn the ANR power to the ON position, indicated with the symbol “I.” The OFF position is indicated with an “O.”
- **A blinking green LED indicates the active noise cancellation circuit is ON.** A blinking red LED indicates low battery life. (For proper battery installation, see the diagram in the Care and Maintenance section of this guide.)
- **If the aircraft does not have a built-in push-to-talk (PTT) switch, a portable PTT switch must be installed in order to use the radio.**

An avionics technician should optimize the master gain control located in the aircraft radio whenever adding a new model microphone to the system.

**SURE POWER SYSTEM (SPS):** To conserve battery life, ANR models will automatically shut off the ANR circuit if no audio is sensed by the headset for a period of 28 minutes. Full passive performance is maintained. ANR operation is reactivated by turning the ANR power switch to the OFF position and back to the ON position, indicated with the symbol “I.”

**CARE AND MAINTENANCE**
**GENERAL CARE**
As with most electronic equipment, it’s important to protect your Denali headset from exposure to the elements. Do not leave the headset on the seat of a plane or car, or in intense, direct sunlight exceeding 156° F. Do not leave the headset out in the rain or in freezing temperatures. Return the headset to its carrying case and store in a cool, dry area.

**PLUG CONNECTION CHART**

**CONTACT US**
To clean the Denali headset, earseals, or headpad, dampen a non-abrasive cloth with water and mild soap. After cleaning, wipe dry with a soft cloth. **Note:** do not allow any water to seep into the ear dome.

**IMPORTANT:** Do not immerse the headset in water. Never use bleach on ear seals, headpad, or any other part of the Denali headset.
REPLACING THE BATTERY

To install or replace the ANR battery, open the battery door by sliding the door in a downward motion until it unlatches and lift up as shown in diagram A.

Slide the 9-volt battery in with the larger battery contact on the bottom. If you put the battery in upside down, it will not activate. See diagram B.

Battery life is dependent on the ambient noise in the aircraft, but should provide a minimum of 20 hours of continuous use.

CAUTION: Bias voltage supplied to the microphone must come from voltage and resistance ranges specified below. Voltages supplied in excess of those stated in the specifications can cause microphone failure and void the warranty. The mic audio signal is present between the ring and barrel of the mic plug; tip is reserved for transmit keyline.

**SPECIFICATIONS**

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<th>D30MPH - Mono, Passive Helicopter w/UT4 plug</th>
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<td><strong>Headset</strong></td>
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<tr>
<td>Shielding</td>
<td>Denali Passive: Full floating w/independent ground</td>
<td>Denali ANR: Full floating w/independent ground</td>
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<td>Weight</td>
<td>11.0 ounces</td>
<td>12.9 ounces</td>
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<td>Temperature Sensitivity</td>
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<td>Battery Life</td>
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<td>Impedance</td>
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<td>Maximum Speech Level</td>
<td>112 dBspl</td>
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<tr>
<td>Maximum Ambient Noise Level</td>
<td>13dB spl</td>
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*Engine measurements referred to 0.0002 ubar (dynes/cm²) @ 1kHz. Microphone measurements made with 50-volt supply with a 1000 ohm resistor.

Contact Flightcom for the most current ANR specifications.

**DENALI® Aviation Headset**

**Passive & Active Noise Canceling Models**

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<th>D30SP</th>
<th>D30MPH</th>
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600-0033-20 Rev E
REPLACING THE BATTERY

To install or replace the ANR battery, open the battery door by sliding the door in a downward motion until it unlatches and lift up as shown in diagram A.

Slide the 9-volt battery in with the larger battery contact on the bottom. If you put the battery in upside down, it will not activate. See diagram B.

Battery life is dependent on the ambient noise in the aircraft, but should provide a minimum of 20 hours of continuous use.

CAUTION: Bias voltage supplied to the microphone must come from voltage and resistance ranges specified below. Voltages supplied in excess of those stated in the specifications can cause microphone failure and void the warranty. The mic audio signal is present between the ring and barrel of the mic plug; tip is reserved for transmit keyline.

---

SPECIFICATIONS

### D50ANR - Stereo, Active Noise Reduction
- Weight: 11.0 ounces
- Temperature Sensitivity: Not to exceed 156°F
- Battery Life: 20 hours of continuous use
- Sensitivity (1mW in dBm): 104dB
- Frequency Response: 90Hz—20kHz
- Impedance: 300 ohms stereo/ch.—150 ohms mono
- Total Harmonic Distortion (@1kHz): <.15%
- Maximum Power Input: 250 mW
- Noise Reduction Rating: 21dB
- Type: Noise-canceling electret condenser w/constant-gain preamp
- DC Bias Voltage: 8.15 volts
- Supply Sound Resistance: 220-2200 ohms
- Frequency Response (dBm): 420Hz-4kHz
- Sensitivity (dB 1kHz/m?): 50dB
- Noise Rejection Ratio (@1kHz): -46dB
- Total Harmonic Distortion (@1kHz): <.1%
- Impedance: 500 ohms
- Maximum Speech Level: 112 dBm*
- Maximum Ambient Noise Level: 130 dBm*

*Sensitivity measurements referred to 0.0002 ubar (dynes/cm²) @ 1kHz. Microphone measurements made with 10-volt supply with a 1000-ohm resistor.

Contact Flightcom for the most current ANR specifications.

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### D30SP - Stereo, Passive
- Weight: 12.9 ounces
- Temperature Sensitivity: Not to exceed 156°F
- Sensitivity: 104dB
- Frequency Response: 90Hz—20kHz
- Impedance: 300 ohms stereo/ch.—150 ohms mono
- Total Harmonic Distortion (@1kHz): <.15%
- Maximum Power Input: 250 mW
- Noise Reduction Rating: 21dB
- Type: Noise-canceling electret condenser w/constant-gain preamp
- DC Bias Voltage: 8.15 volts
- Supply Sound Resistance: 220-2200 ohms
- Frequency Response (dBm): 420Hz-4kHz
- Sensitivity (dB 1kHz/m?): 50dB
- Noise Rejection Ratio (@1kHz): -46dB
- Total Harmonic Distortion (@1kHz): <.1%
- Impedance: 500 ohms
- Maximum Speech Level: 112 dBm*
- Maximum Ambient Noise Level: 130 dBm*

*Sensitivity measurements referred to 0.0002 ubar (dynes/cm²) @ 1kHz. Microphone measurements made with 10-volt supply with a 1000-ohm resistor.

Contact Flightcom for the most current ANR specifications.

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### D30MPH - Mono, Passive Helicopter w/U174 plug
- Weight: 12.9 ounces
- Temperature Sensitivity: Not to exceed 156°F
- Sensitivity: 104dB
- Frequency Response: 90Hz—20kHz
- Impedance: 300 ohms stereo/ch.—150 ohms mono
- Total Harmonic Distortion (@1kHz): <.15%
- Maximum Power Input: 250 mW
- Noise Reduction Rating: 21dB
- Type: Noise-canceling electret condenser w/constant-gain preamp
- DC Bias Voltage: 8.15 volts
- Supply Sound Resistance: 220-2200 ohms
- Frequency Response (dBm): 420Hz-4kHz
- Sensitivity (dB 1kHz/m?): 50dB
- Noise Rejection Ratio (@1kHz): -46dB
- Total Harmonic Distortion (@1kHz): <.1%
- Impedance: 500 ohms
- Maximum Speech Level: 112 dBm*
- Maximum Ambient Noise Level: 130 dBm*

*Sensitivity measurements referred to 0.0002 ubar (dynes/cm²) @ 1kHz. Microphone measurements made with 10-volt supply with a 1000-ohm resistor.

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