

CharterOak Acoustic Devices

OPERATIONAL MANUAL MODEL S600

Thank you for purchasing the CharterOak model S600. You have just acquired one of the finest microphones in the world. The S600 is a front address condenser microphone which employs a custom made side terminated gold diaphragm, vacuum tube head amplifier using a selected low noise tube and output transformer. As a result, the model S600 has very low inherent noise and broad dynamic range. Its timbre is distinctive. Its rich and balanced sound makes it an ideal choice to ensure extremely high quality sound reproduction.

The S600 is a vacuum tube condenser microphone and requires special setup and care. Inside the case you will find the following:

(2) 7 pin XLR cables, (2) 3 pin XLR cables, (2) IEC type 2 AC mains cables, (1) custom dual power supply, (2) S600 shock mounts, and (2) S600 condenser microphones.

Perform the following steps in the specific order printed in this manual.

1. Remove the microphone, power supply, and cables from the case.
2. Connect the microphone to the shock mount by carefully threading and screwing the shock mount to the base of the microphone.
3. Put the combined microphone and shock mount on a sturdy professional microphone stand.
4. Using the 7 pin XLR cable, connect the microphone to the power supply. Using the 3 pin XLR cable, connect the audio output on the power supply to the desired input, such as a high quality mixer or a stand-alone microphone preamplifier. For best results, it is highly recommended that high quality microphone preamplifiers be used with all CharterOak microphones.
5. Our power supplies are manufactured for international use, so they all come with a voltage selection switch. This switch can be located on the back of the unit next to the on/off switch. You will have a selection between 115V and 230V operation. Make absolutely sure that you have selected the correct voltage for your outlet as a mistake in selection could cause serious damage to the power supply and/or the microphone.
6. Once you have completed steps 1 through 5 you can turn on the power supply to the microphone. Like all tube microphones, always turn on the power supply to the microphone and let them warm up for approximately one hour before use. In general, tubes should be completely warmed up and stabilized before use.
7. Once you have successfully turned on and warmed up the microphone you may adjust the gain. Note that gain staging is very important. If not gain staged properly, you can under or over drive the input stage producing unwanted noise and or distortion. Setting the gain is critical to your result. See your mixer and or microphone preamplifier manual for more details. Microphone placement and pattern selection are also variables that can produce a variety of results. Feel free to experiment for best results.

Remember that the CharterOak S600 is a tube microphone. It will provide the warm vintage sound that so many artists, recording engineers, and producers prefer. However, tubes age and will need replacing periodically. You can carefully unscrew the body of the microphone, carefully remove the tube and replace it with one from CharterOak Acoustic Devices at any time.

Thank you again for purchasing CharterOak microphones. You will enjoy years of trouble-free use with proper care and maintenance. Now you can begin to explore "The Nature of Sound"™

CharterOak Acoustic Devices...
Creating the Classics of TomorrowSM

