

## CONGRADULATIONS UPON YOUR PURCHASE OF A

### KLANN CYMBELSTERN

#### IT IS THE FINEST CYMBELSTERN AVAILABLE IN NORTH AMERICA

Although the installation of the **Klann** Cymbelstern is quite easy, allow us to give some hints to help achieve the optimum effect in using this instrument.

1. It is designed to operate on 12 volt DC current and draws only 55 milliamps of current. (Most chest magnets draw 100 milliamps or more). Because each installation has its own requirements we do not include a switch. Since the current level is so low any form of switch can be used such as a spare stop key or draw knob, any reversible action, or even a simple latching switch (push, it's on, push, it's off) from Radio Shack. Any single spare wire in the cable can be used to get the power from the console to the unit. The ground wire can be run to any convenient negative common in the chamber. The polarity of the connection to the junction block in the unit does not matter. However, reversing the wires will reverse the direction in which the motor turns. The potentiometer mounted on the case controls the speed of the motor. It can be taken off the case and mounted at the console for the convenience of the organist to change the speed and thus affect the volume of the sound.
2. The bells may be mounted in any order on the case. Many people prefer the sound made by a random order of the bells while others prefer to have an ascending or descending pitch sound. Since there are two strikers, the randomness of the sound can be enhanced if one of the opposite bells is offset slightly from its mate. One striker should be hanging slightly higher than the other. As the strikers hit the bells they start to swing in a pattern. If they are both the same length this swinging pattern may cause them to keep missing the same belles). When they are at different levels they have different swing patterns so what one misses, the other will hit, adding to the randomness of the sound. The smallest bell should be set as low as it will go by turning it on to its post. The rest should be adjusted so the bottom rims are all at the same level. The longer striker should be adjusted to the level of the rims and the bells placed so the strikers just miss the bells as you turn the arm slowly by hand.
3. In order to reflect the sound, the cymbelstern should be placed in front of a good, hard, non-porous reflecting surface. Ideally the organ case will provide this site. The bells are not loud but their purity of tone and true harmonics allows the sound to flow through any level of sound the organ may produce. In some organs where there is a lot of high-pitched mixtures, the cymbelstern effect may be enhanced by using a chromatic set of eight bells from F to C rather than the standard C to C scale. We will be glad to exchange the three bells if you feel this would be better for your installation.