

Zeta

Epsilon

Alpha

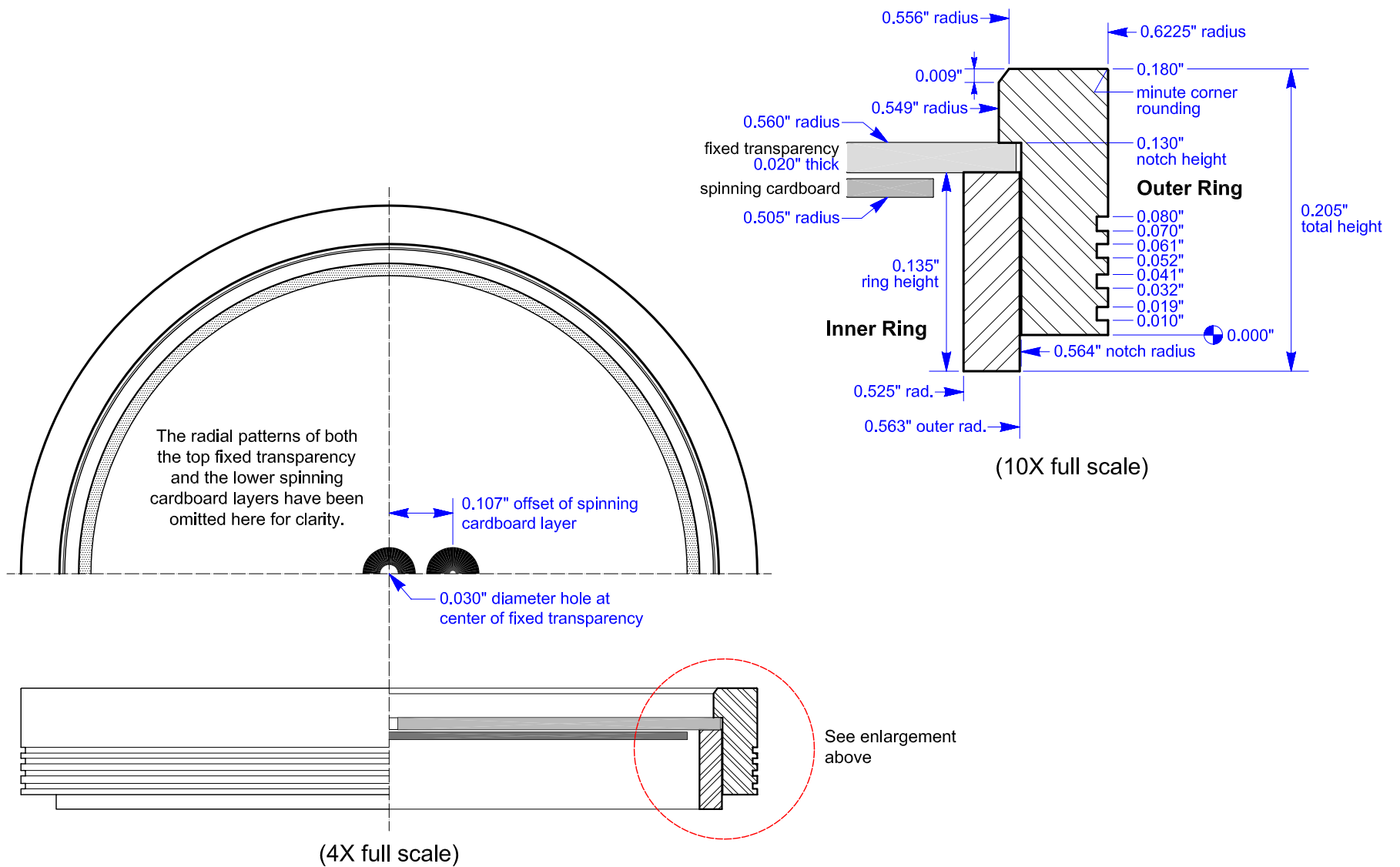
Gamma

Delta

Star Trek is a Registered and Copyrighted Trademark of Paramount Pictures. All Rights Reserved. All subject matters referring to Star Trek are trademarks of Paramount Pictures.

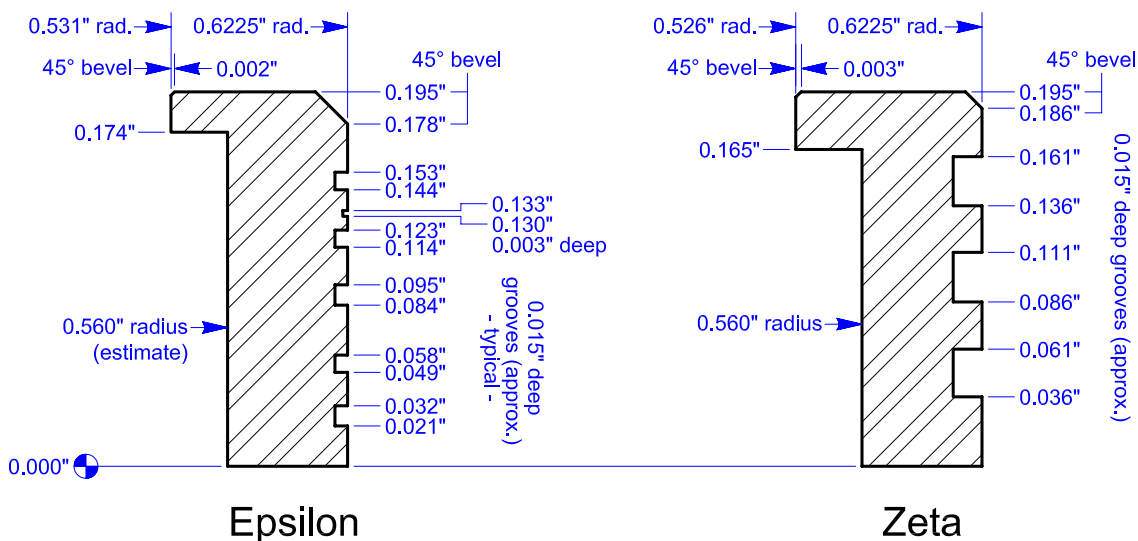
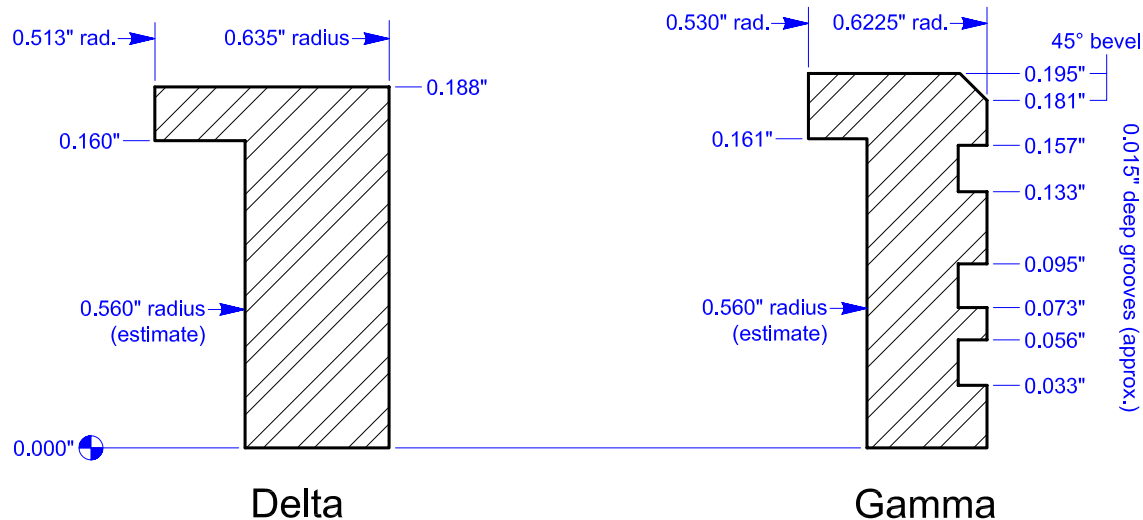
Authentic Communicator Blueprint Series - **Moiré Bezel Rings**





Alpha hero: Moiré Bezel Ring Details

Star Trek is a Registered and Copyrighted Trademark of Paramount Pictures. All Rights Reserved. All subject matters referring to Star Trek are trademarks of Paramount Pictures.



(all cross section drawings on this page: 10X full scale)

Notes:

1. The bezel rings were mostly or entirely machined from 1-1/4" aluminum tube (raw 1.25" O.D. and ±1.01" I.D.).
2. Alpha's moiré bezel ring was measured by staff. Measurements for Epsilon's and Zeta's* were provided by Greg Jein. A consistent outer diameter of 1.245" was reported for these three, so it is our assumption that all rings (other than Delta) are similar or identical.
3. Dimensions for Gamma and Delta were obtained by scaling the "wavy" patterns seen in photographs of the props to the actual sources in the booklet "The Science of Moiré Patterns." Using this method, Gamma's outer diameter also was determined (within the margin of error) to be 1.245", reinforcing the assumption above.
4. Some elements cannot be measured directly on the props. Side grooves, corner bevels and other recessed details were traced from sharp close-up photographs. Multiple images were traced and averaged when slight differences occurred.
5. Alpha's two-ring construction could not be directly confirmed or refuted by viewing, but it is evident by the inability to insert a rigid plastic transparency disk into a one-piece slotted ring whose outer holes are smaller than the disk. The only way we've found to get the disk into position is to trap it between two separate rings.
6. If the transparency going into an Alpha reproduction is less than 0.020" thick, either extra clear material needs to be stacked in to make up the difference - or the inner ring has to be increased in height to compensate.
7. The paper moiré pattern insert in Zeta (the only dummy communicator we have a disassembled inside view of) was cut to be about 1.09" in diameter. The moiré inserts for the rest of the other dummies were probably sized similarly.
8. For pattern inserts, additional photos and construction details, reference www.HeroComm.com.

* Scaling photos of Zeta's moiré against its pattern source suggests its ring might be slightly larger in diameter than the dimension supplied to us. We'll revise if new data directs.