

WARP FIELD DEVELOPMENT THEORY

The warp "bubble" in which a starship rides at faster-than-light speeds is not a static structure. Rather, it is a flowing, pulsing, ever-shifting field of energy that dictates the shape of a particular starship. Even minor changes in starship design must undergo extensive testing and optimization to ensure safety and propulsive efficiency.

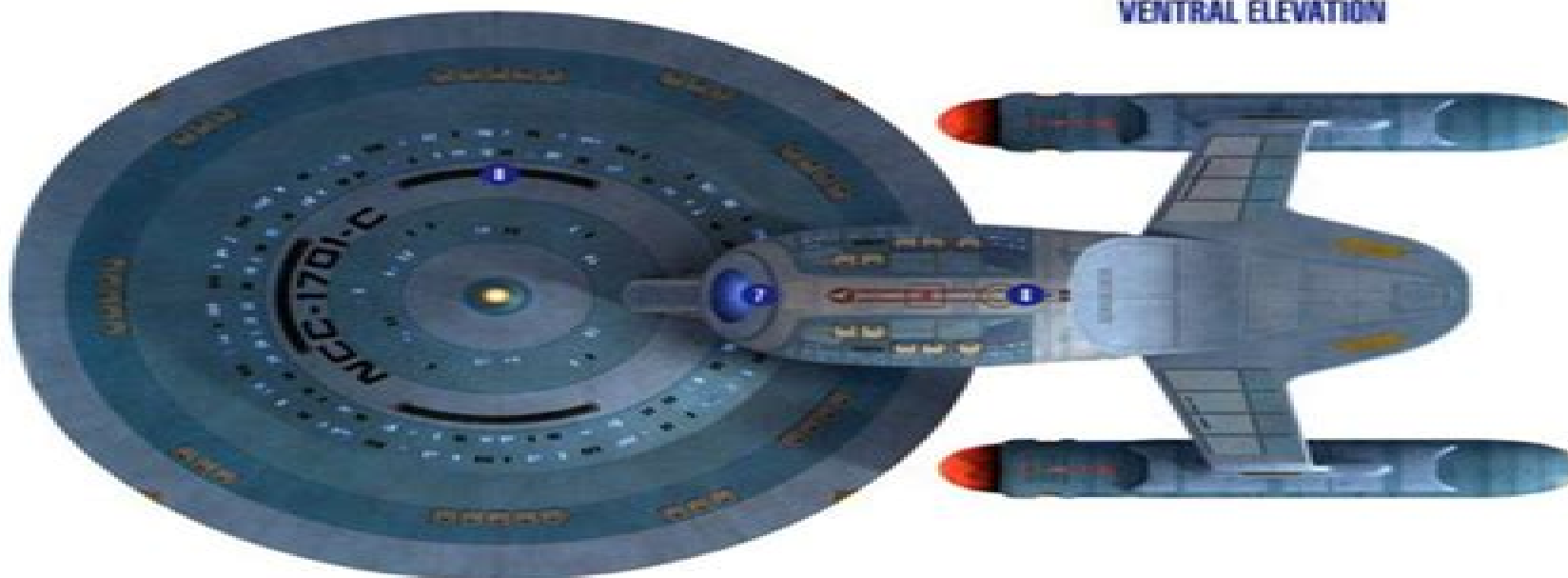
Field geometry is particularly sensitive to variations in the position of the warp engine nacelles. While in conventional (slower-than-light) spacecraft design, the propulsive thrust vector must travel through the vehicle's center of mass, warp propulsion is quite different. Warp drive requires the nacelle axes to be offset from the vehicle's centerline to create the propulsive imbalance. This technique usually requires the forward field lobe (normally containing the saucer section) also to be offset from the nacelle vector. In many older ship designs the nacelles were located slightly above the forward lobe. The *NX* and *Constitution*-class starships used this design, which yielded superior field stability, although it also resulted in reduced propulsive efficiency.

During the 2260s, the Advanced Starship Design Bureau began to experiment with field geometries that lowered the nacelle vector with respect to the forward field lobe. This approach promised improved engine performance but required several years of research into new field-stability software. Among the first vehicles to employ the new approach was the experimental *Starship Excelsior*, whose design lowered the nacelle centerline so it was level with the saucer module. This design was reflected in the *Excelsior*-class *Enterprise-B*. Further advances in field control software allowed even more radical designs for the *Ambassador*-class *Enterprise-C*, and the *Galaxy*-class *Enterprise-D*, both of which saw the nacelles move even lower than the forward lobe.

Strangely enough, recent advances in deflector shield technology have resulted in a reversal of this trend in nacelle position in some of the latest ships. New ultra high frequency shield generators have allowed the *Sovereign*-class *Enterprise-E* to employ higher nacelle positions, while enjoying an additional 3 per cent in engine performance.

The arcane engineering of warp field geometry continues to be a subject of intense study at Starfleet's Advanced Starship Design Bureau and will undoubtedly continue to be an area of ever-changing research and innovation.

VENTRAL ELEVATION



Haynes Manual Starship Enterprise

Chao Zhang



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