

■ SEAL INSTALLATION BULLETS

Sharp edges or corners on splines, keyways, snap-ring grooves, cross-holes or stepped diameters can easily cut or invert a seal lip and dislodge the spring. Thus, when installing a seal over a shaft with irregularities such as these, you should use a tapered assembly bullet.

The tapered assembly bullet should be designed to guide the seal lip past the area of possible damage. For sufficient installation clearance, the outside diameter of the bullet must be smaller than the heel diameter of the seal. A maximum taper of 20 degrees with a generous radius transitioning to the outside diameter will ensure correct assembly. The figure below is an example of an assembly bullet.

